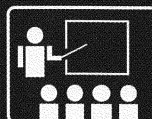
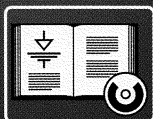


Manitowoc[®]

CraneCARE

MANLIFT **MODEL**
MZ66B

PARTS MANUAL



GROVE®

MANLIFT PARTS CATALOG

BOOM AND LIFT GROUP: (Includes complete Boom breakdown, cylinder breakdown, scissor arms breakdown & PAT system if required).

PLATFORM CONTROL GROUP: (Includes complete platform and control panel breakdown, gauges, switches and electrical harness).

TURNTABLE-HYD SWIVELS GROUP: (Includes turntable drive, swing lock, electric/hydraulic/air swivels, hyd. & fuel tank).

ENGINE GROUP: (Includes engine installation, air cleaner installation and breakdown).

AXLE GROUP: (Includes turntable drive breakdown, counterweights, swing lock, electric/hydraulic/air swivels, lift cylinders and control valves).

ENGINE GROUP: (Includes axle installation and breakdown, tire and wheel breakdown).

OUTRIGGER GROUP: (Includes outrigger installation and cylinders).

FRAME GROUP: (Includes frame decals, fuel and hydraulic tanks inf mounted on frame).

AIR/ELECTRICAL GROUP: (Includes all electrical and air installations, harness assembly. Does not include control panels).

HYDRAULIC GROUP: (Includes all hydraulic installations, control valves, hydraulic lines installations). valves mounted on frame).

GROVE Crane Care Publications Dept.
1565 Buchanan Trail East
Shady Grove, PA 17256-0021

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INSTRUCTIONS FOR USING YOUR GROVE PARTS CATALOG

GENERAL

This catalog is custom built to a particular model and serial number machine. The catalog contains a Machine Component Index, Parts Lists, Illustrations, Alphabetical Index, Numerical Index, Recommended Spare Parts List and Belt and Filter Maintenance List.

CONTENTS

MACHINE COMPONENT INDEX

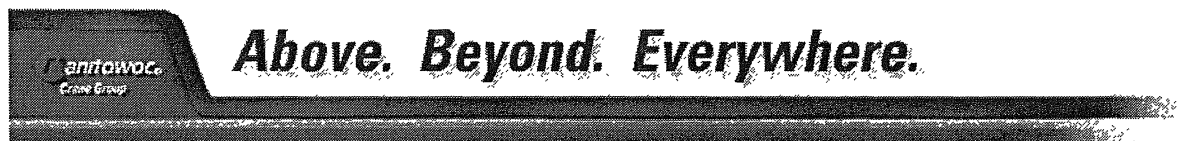
This document located in the front of the catalog is the key to using the parts catalog. The index lists major group headings that correspond with the index tabs throughout the catalog. Under each major group heading are part numbers and descriptions of the related parts and components that are illustrated for parts ordering. The parts lists and illustration numbers correspond with the numbers on the index and are located behind the major group index tab in the sequence listed on the index.

Grove Worldwide MACHINE COMPONENT INDEX

Date: Jun 14, 2002

Rev.

Model Number TAE1400		Serial Number 222853	
Item	Part	Description	Page
1	2174910112	BOOM GROUP	7
	8372100136	BOOM ASSEMBLY - 110'	16
	8372100121	TELESCOPIC	19
		CYLINDER ASSEMBLY - 8.00"	
		TELESCOPIC	
2	2174210019	PIVOT INSTALLATION -	21
		UPPER BLOCK	
2	7988100026	HOOK BLOCK ASSEMBLY	23
3	2174810011	SHEAVE INSTALLATION - 2 OVER 6	25
	8718100028	SHEAVE ASSEMBLY	27
5	2174910071	BLOCK INSTALLATION - STOP	29
6	7953100004	BALL ASSEMBLY - OVERHAUL	31
6	3488000132	WEIGHT AND CHAIN ASSEMBLY	35
7	3488000212	WEIGHT AND CHAIN ASSEMBLY	36
11	2174910090	EXTENSION INSTALLATION -	41
		FOLDING OFFSET BOOM	
	2174910091	EXTENSION ASSEMBLY - FOLDING	45
		OFFSET BOOM	
	2174910076	EXTENSION ASSEMBLY - BOOM FLY	47
	8718000590	SHEAVE ASSEMBLY - COMPLETE	49
	8719000580	SHEAVE ASSEMBLY - COMPLETE	51
	2174910048	MAST ASSEMBLY	53
	8718000580	SHEAVE ASSEMBLY - COMPLETE	55
	2174910094	ALIGNMENT INSTALLATION -	57
		BOOM EXTENSION	
14	2174910147	EXT CARR INSTL (W/STINGER)	59
15	2165810022	NOSE INSTALLATION - AUXILIARY	65
	8718000580	SHEAVE ASSEMBLY - COMPLETE	67
19	3488000234	LIGHTBAR INSTALLATION	69
		LMI	
20	7988100055	BOOM KIT - LMI	71



GROVE®

TO ORDER PARTS

IT IS ESSENTIAL TO SUPPLY THE FOLLOWING INFORMATION ON PARTS ORDERS SO THAT YOUR ORDER CAN BE PROPERLY EXPEDITED.

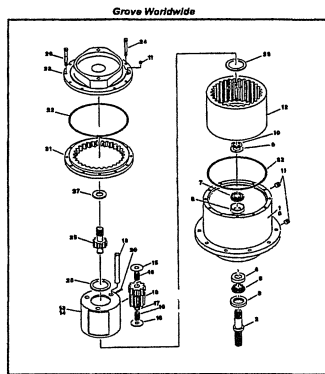
1. Give Model and Serial Number of your machine. This information is found on the serial number plate mounted in the cab (Cranes) or on the basket (Platforms).
2. Give complete information on the Part(s) requested including the part number, description and quantity.
3. Give the specific major unit for which the item is required, such as: Front Axle, Transmission, Cylinder, Platform, Control Box, etc...
4. Give complete "Ship-to" address and specify exact method of shipment wanted.
5. Specify the urgency of the parts ordered by designating the priority (emergency or stock)

NOTE: When placing telephone orders, please record with whom you spoke and the date of the order, so that follow-up telephone conversations are processed without confusion.

GROVE

PARTS LISTS/ILLUSTRATIONS

All part numbers located on the Machine Component Index have a corresponding parts break down found in the catalog. The part numbers are located at the bottom of the parts lists and illustrations match the part numbers on the index. The parts lists consist of part numbers, descriptions, quantities and an item number referring to the illustrated drawing. The illustrations are pictorial representations of parts and correspond to the applicable parts list.



77400117

(SHEET 1 OF 1)
Page 280

Description				Part		Qty		Description	
PLANETARY GEAR REDUCER ASSEMBLY				Part		Qty		Description	
Item				Part		Qty		Description	
1	875180773	1	1	1	1	1	1	1	1
2	875180838	1	1	1	1	1	1	1	1
3	875180839	1	1	1	1	1	1	1	1
4	875180839	1	1	1	1	1	1	1	1
5	875180839	1	1	1	1	1	1	1	1
6	875180839	1	1	1	1	1	1	1	1
7	875180839	1	1	1	1	1	1	1	1
8	875180773	1	1	1	1	1	1	1	1
9	875180773	1	1	1	1	1	1	1	1
10	875180839	1	1	1	1	1	1	1	1
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27	875180839	1	1	1	1	1	1	1	1
28	875180839	1	1	1	1	1	1	1	1

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ALPHABETICAL PARTS INDEX

This is an alphabetical listing of part numbers, their descriptions, page number and where the parts are located in the parts catalog. This is identified as Appendix A. The Alphabetical index does not include common parts.

Alphabetical Index			Appendix A	
Description	Part	Page		
1" X 1/2" X 3 1/2"	711250080	461		
2" X 1/2" X 3 1/2" - GRD 8	711250080	461		
ACTUATOR	902010242	181, 182, 221, 223		
ADAPTER	411400178	278		
	211000029	278		
	701000045	278		
	701000045	278		
	872100141	191		
ADAPTER & OIL SEAL ASBY	900410561	380, 436, 438		
ADAPTER ASSEMBLY	900410561	387, 432, 435		
AIR CLEANER ASSEMBLY	700400002	411		
ALARM, BACK-UP	700300181	509		
ALTERNATOR	700000007	274		
ANGLE	800000014	47		
	800001180	48		
	800000014	48		
	800000014	48		
	800000014	48		
	800000014	48		
ANGLE, MOUNTING	211400001	192		
ARM	311400007	286		
ARM, UPPER	700300002	139		
ASLE ASSEMBLY	704000088	495		
BAFFLE	800410500	155, 157		
	900410500	261, 429, 430		
BAFFLE, OIL	900410500	261, 427, 427		
BAFFLE, RADIATOR	411400180	419		
BAG, BAGGUL	700000107	413		
BALL	700300002	47		
	900410500	261, 421, 421		
	900410500	261, 421, 421		
	900410500	261, 421, 421		
	900410500	261, 421, 421		
	900410500	261, 421, 421		
BALL, STEEL	900410500	155, 157		
BARREL	800410500	155, 157, 221, 223		
	800410500	465, 491		
	800410500	15, 25		
	800410500	807, 508		
	800410500	807, 511		

Form 1" X 1/2" X 3 1/2"

Page A1

To - BARREL



Above. Beyond. Everywhere.

GROVE®

NUMERICAL PARTS INDEX

This is a numerical listing of part numbers, their descriptions, page number and where the parts are located in the parts catalog. This is identified as Appendix B. The Numerical index does not include common parts.

Numerical Index			Appendix B	
Part	Description	Page		
820677044	SUSPND	156		
820677045	SUSPND	219, 303		
820677046	SUSPND	17		
820677047	SUSPND	27		
820677048	CABLE BATTERY	251		
820677049	CABLE BATTERY (BLACK)	251		
820677050	CABLE BATTERY	251		
820677051	CABLE	257		
820677052	COVER	462		
820677053	CAP END	277, 301		
820677054	COVER	351		
820677055	DUST COVER ASSY	41, 47		
820677056	SHIELD LIND CLAMP	175		
820677057	CAGE	335, 337, 347, 349		
820677058	CLAMP	15		
820677059	CHAM - USE 820677060	45		
820677060	CLAMP	415		
820677061	CLIP	195		
820677062	COLLAR	195		
820677063	PANEL ASSEMBLY - ASS	47		
820677064	SHIELD ASSEMBLY	251		
820677065	SHIELD ASSY -	251		
820677066	HEAD	331, 351, 357		
820677067	CYLINDER ASSEMBLY - 3.50"	481		
820677068	BARREL	481		
820677069	CYLINDER ASSEMBLY -	15		
820677070	BARREL	15, 23		
820677071	HEAD CYLINDER	353, 355		
820677072	HEAD	481		
820677073	HEAD CYLINDER	15, 23		
820677074	CYLINDER ASSEMBLY - LIFT	803, 807, 809, 811		
820677075	BARREL, CYLINDER	353		
820677076	CYLINDER ASSEMBLY -	805		
820677077	CYLINDER ASSEMBLY -	805		
820677078	BARREL	805, 809		

From - 820677034

To - 827202765

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RECOMMENDED SPARE PARTS LISTS

This is a recommended listing of part numbers, their descriptions, page number and where the parts are located in the parts catalog. This is identified as Appendix C.

Grove Worldwide					Appendix C	
Recommended Spare Parts List						
Part No.	Qty	Yr	City	Description	Page	
782000100	1	1	1	SPRING	283	
782000101	1	1	1	SPRING	43, 81, 83, 85	
782000102	1	1	1	SPRING	134	
782000103	1	1	1	STOP LIGHT	247, 429	
782000104	1	1	1	SWITCH PRESSURE	465	
782000105	1	1	1	SWITCH PRESSURE	343	
782000106	1	1	1	SWITCH PRESSURE	373	
782000107	1	1	1	SWITCH PRESSURE	423	
782000108	1	1	1	SWITCH DOOR	195	
782000109	1	1	1	SWITCH DOOR	181	
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782000315	1					

GROVE®

BELT AND FILTER MAINTENANCE LIST

This is a list of Belts and Filters used on a specific serial number, their descriptions and page number where the parts are located in the parts catalog. This is identified as Appendix D.

Grove Worldwide					
Bell and Filter Maintenance List					Appendix D
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142790142	2	4	1	PETRA FUEL	552
930419007	2	4	2	ELEMENT, AIR CLEANER	415, 417
943719042	2	4	2	ELEMENT, HYDRAULIC RESERVOIR	501

GROVE® LIFETIME CUSTOMER SUPPORT

Grove O-ring Kit!

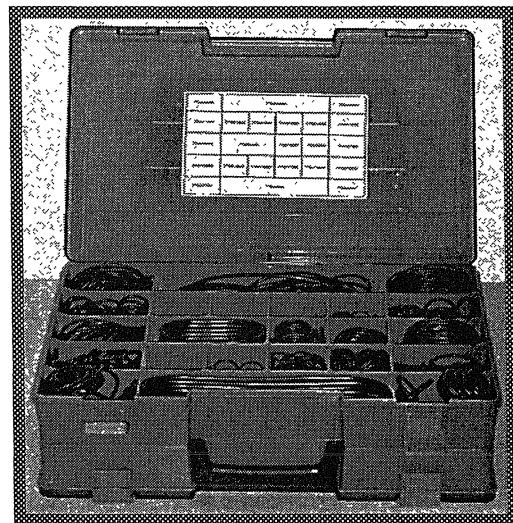
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- ✎ Parts can be used on other hydraulic equipment
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To place your order, please contact your nearest Grove Worldwide Distributor today for full details and pricing.

**GROVE WORLDWIDE
LIFETIME CUSTOMER SUPPORT**

Manitowoc Crane Group MACHINE COMPONENT INDEX

Date: Sep 17, 2007

Rev:

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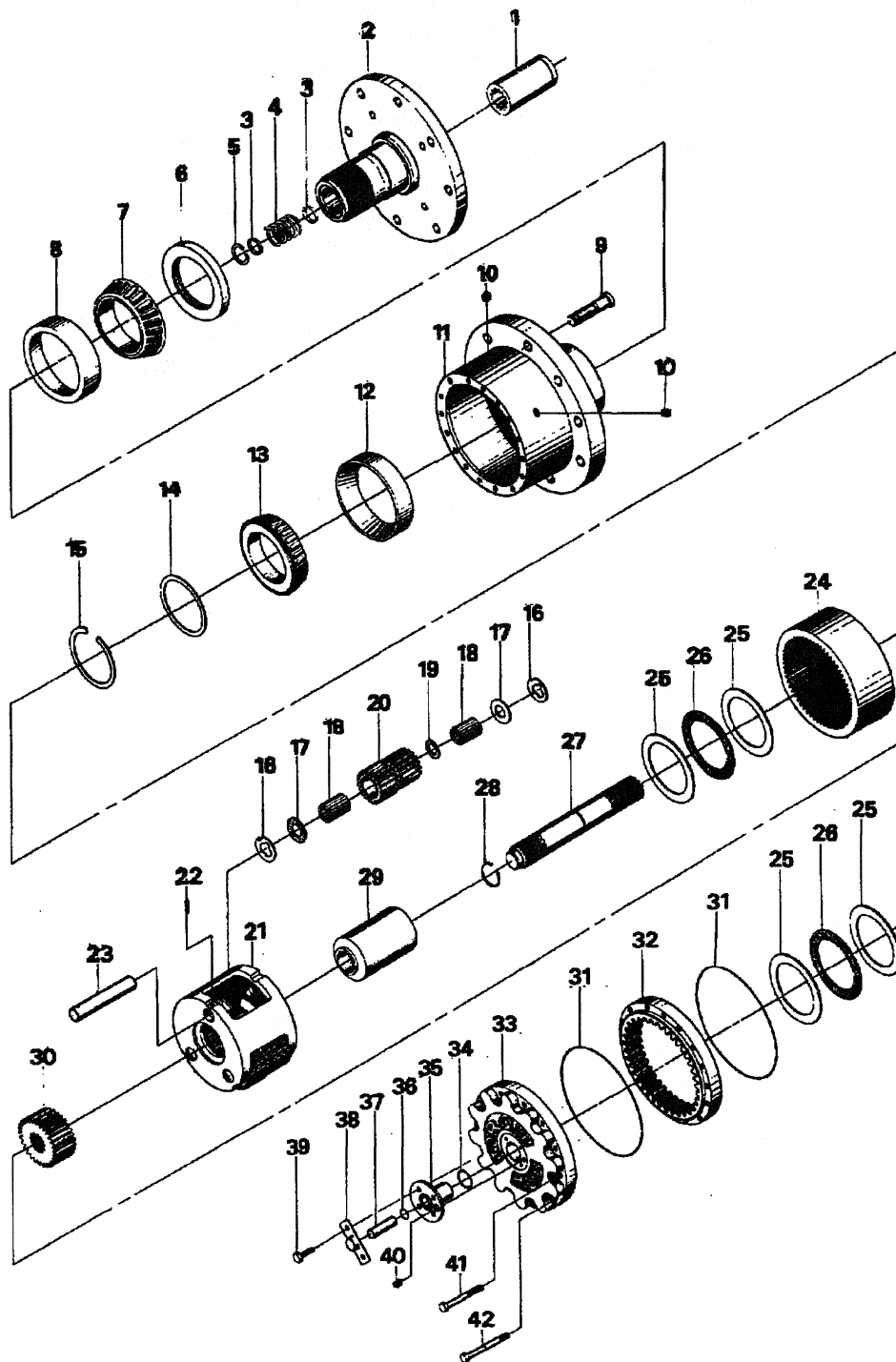
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Manitowoc Crane Group

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Manitowoc Crane Group

Description

HUB ASSEMBLY - TORQUE

Assembly No.

7970000994

Revision:

Item	FN	Part	Qty	Description
1		9734100347	1	COUPLING
2		9734100567	1	SPINDLE
3		9734100341	2	WASHER
4		9734100342	1	SPRING
5		9734100343	1	RING, RETAINING
6		9734100319	1	SEAL
7		9734100321	1	CONE, BEARING
8		9734100320	1	CUP, BEARING
9		9734100499	10	STUD
10		9734100327	2	PLUG, PIPE
11		9734100568	1	HUB
12		9734100322	1	CUP, BEARING
13		9734100323	1	CONE, BEARING
14		9734100325	1	SPACER
15		9734100326	1	RING, RETAINING
16		9734100571	6	WASHER
17		9734100574	6	WASHER
18		9734100333	84	ROLLER
19		9734100572	3	SPACER
20		9734100573	3	GEAR, CLUSTER
21		9734100331	1	CARRIER
22		9734100337	3	PIN
23		9734100335	3	SHAFT
24		9734100569	1	GEAR INTERNAL
25		9734100348	4	WASHER, THRUST
26		9734100349	2	BEARING, THRUST
27		9734100345	1	SHAFT INPUT
28		9734100344	1	RING, RETAINING
29		9734100578	1	SPACER
30		9734100579	1	GEAR INPUT
31		9734100339	2	O-RING
32		9734100338	1	GEAR, RING

Manitowoc Crane Group

Description

HUB ASSEMBLY - TORQUE

Assembly No.

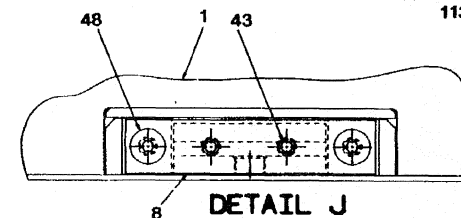
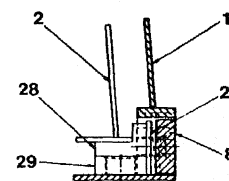
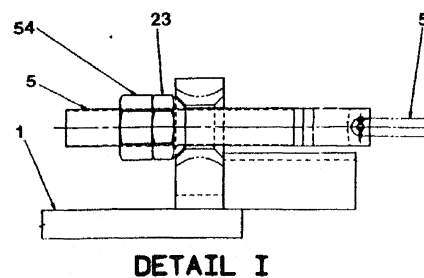
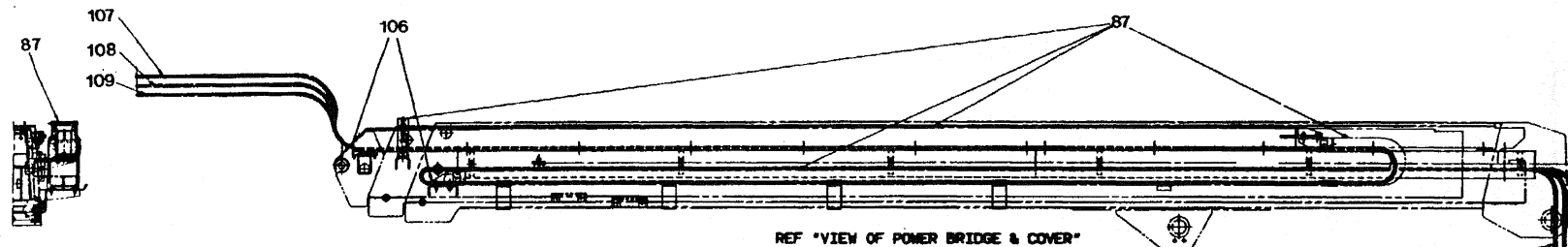
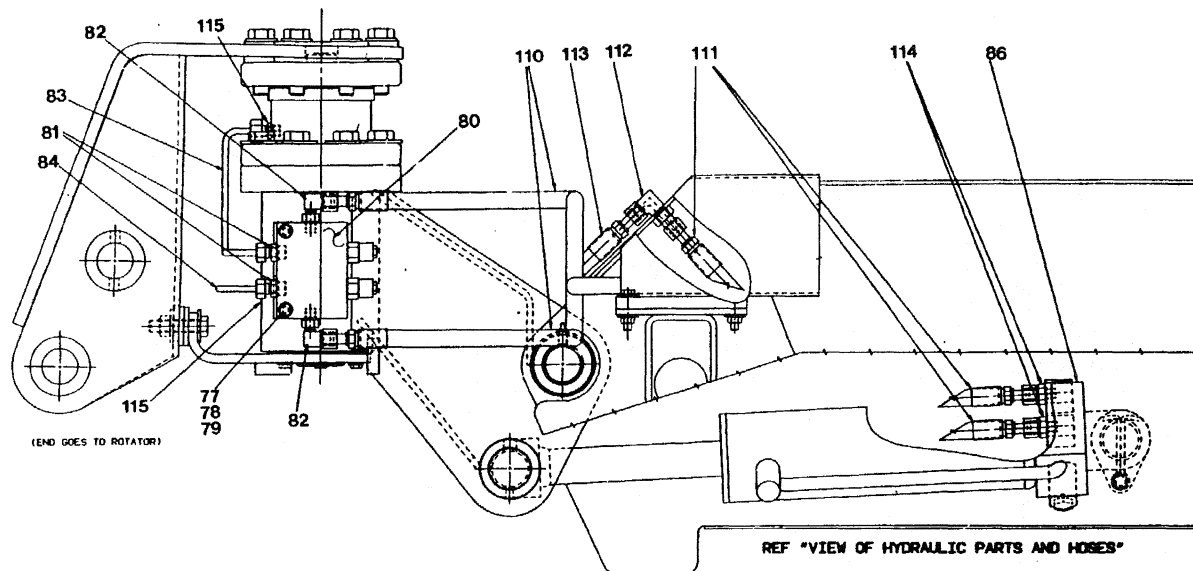
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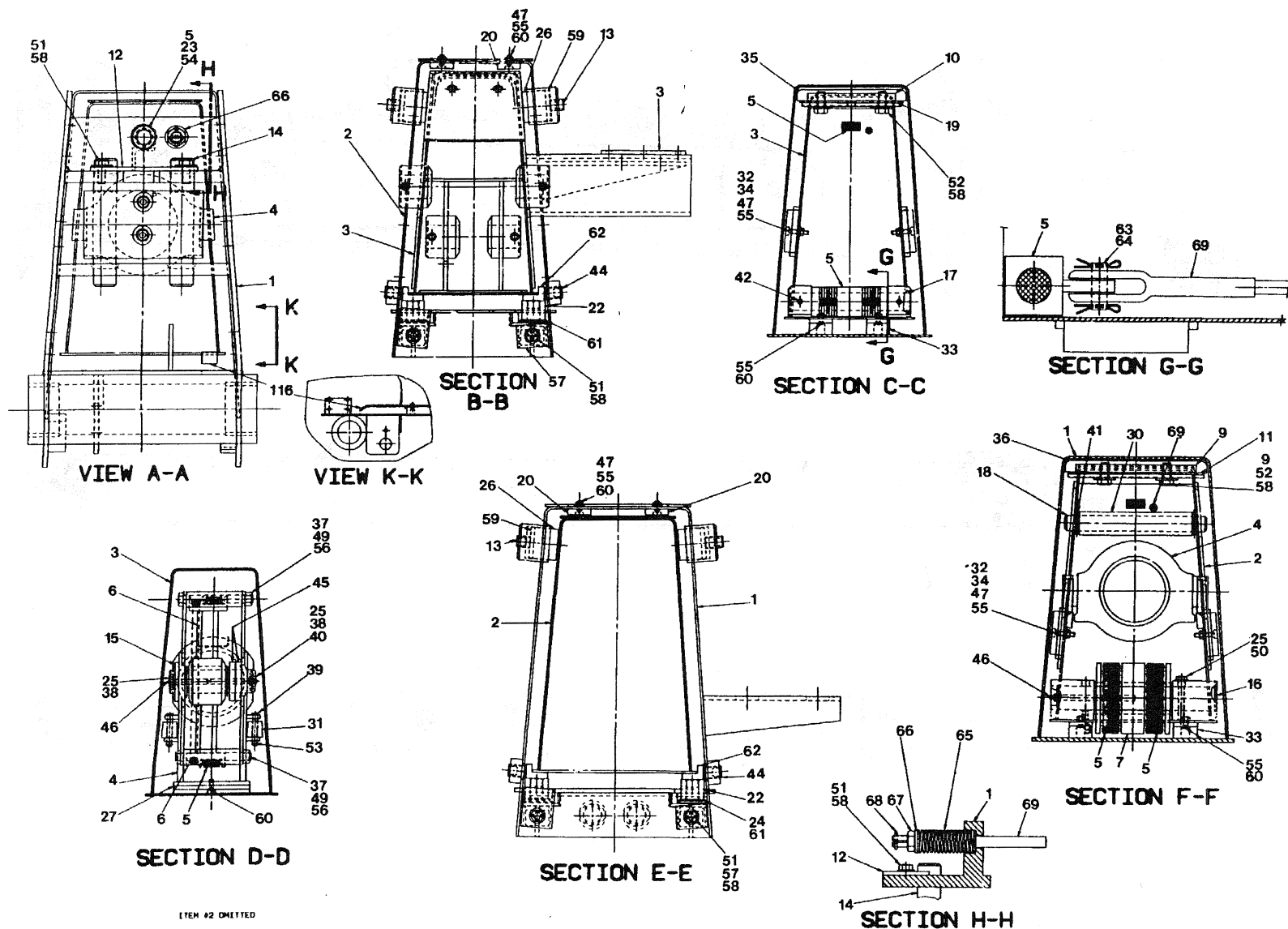
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Item	FN	Part	Qty	Description
33		9734100575	1	COVER
34		9734100517	1	O-RING
35		9734100576	1	CAP
36		9734100516	1	O-RING
37		9734100577	1	ROD
38		9734100514	1	CAP
39		9734100513	4	CAP SCREW 1/4" - 20 N.C. X 3/4" GRADE 5
40		9734100518	1	PLUG, PIPE
41		9734100580	8	CAP SCREW
42		9734100581	4	CAP SCREW GRADE 8
43		9734100570	0	CARRIER ASSEMBLY INCLUDES NBR 16-23

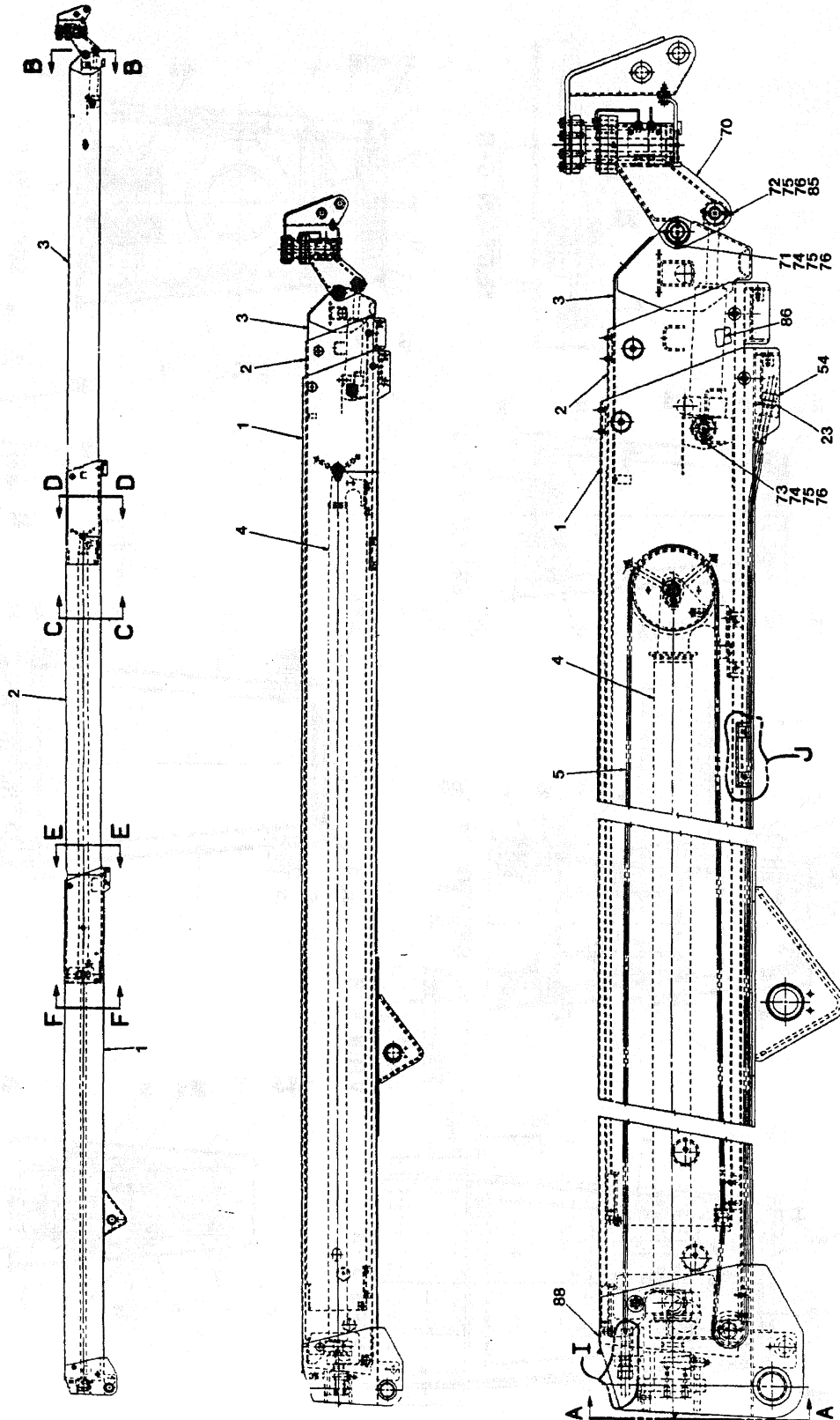
Manitowoc Crane Group

Notes





[ITEM #2 OMITTED]



Manitowoc Crane Group

Description
BOOM ASSEMBLY

Assembly No.
2145900775
Revision: **A**

Item	FN	Part	Qty	Description
1	+	2145900716	1	BASE SECTION - BOOM
2		2145900718	1	SECTION, BOOM MID
3		2145900666	1	SECTION, FLY
4	+	6372002817	1	CYLINDER ASSEMBLY - 4" TELESCOPE
5	#	6286000716	1	CHAIN ASSEMBLY
6		2146900045	1	SHEAVE INCLUDES THE FOLLOWING PARTS
		7069000345	1	BEARING
7		6718001131	1	SHEAVE INCLUDES THE FOLLOWING PARTS
		7069001092	1	BEARING
8		4146900055	4	BAR, RETAINING
9		6059000204	1	BAR, RETAINING
10		6059000205	1	BAR, RETAINING
11		4146900099	0	SHIM
12		6705016306	1	PLATE
13		7785221474	4	SET SCREW 3/4" - 10 N.C. X 7/8"
14		6810001777	2	SHAFT
15		6810002782	1	PIN
16		6689000560	1	PIN
17		6689000556	1	PIN
18		6810001776	1	SHAFT
19		4146900095	0	SHIM
20		6671000246	4	PAD, WEAR
21		6705009263	0	SHIM .0897"
22		6671000248	4	SUPPORT, WEAR PAD
23		6659000226	2	NUT
24		6705009267	2	SHIM
25		7949000263	3	WASHER, HARDENED
26		6671000236	4	PAD, WEAR
27		4146900003	1	PAD, WEAR
28		6671000247	4	PAD, "L" WEAR
29		6671000249	4	SUPPORT, WEAR PAD
30		4146900006	1	PAD, WEAR

+ SEE FURTHER BREAKDOWN THIS GROUP

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Crane Group

Description
BOOM ASSEMBLY

Assembly No.
2145900775
Revision: **A**

Item	FN	Part	Qty	Description
31		4146900123	2	PAD, WEAR - TAPERED ROLLER
32		4149900019	4	PAD, WEAR
33		4143900026	4	PAD, WEAR
34		7110141023	12	CAP SCREW 1/4" - 20 N.C. X 1 1/4" GRADE 1
35		6671000245	1	PAD, WEAR - MID
36		6671000244	1	PAD, WEAR - BASE
37		6200080829	2	BUSHING
38		7115160750	2	CAP SCREW 3/8" - 16 N.C. X 7/8" GRADE 5
39		7690153201	2	PIN, CLEVIS
40		6705010972	1	PLATE
41		7689000036	2	PIN, CLIP
42		7785161070	2	SET SCREW
43		7785180874	8	SET SCREW 1/2" - 13 N.C. X 1/2"
44		7785221874	4	SET SCREW 3/4" - 10 N.C. X 1 1/8"
45		6199001674	2	BUSHING, SPACER
46		7440000000	3	FITTING, 1/8 STRAIGHT GREASE
47		7950140141	12	FLATWASHER, 1/4" I.D.
48		7110180823	8	CAP SCREW 1/2" - 13 N.C. X 1" GRADE 1
49		7115183650	2	CAP SCREW 1/2" - 13 N.C. X 4 1/2" GRADE 5
50		7115162050	2	CAP SCREW 3/8" - 16 N.C. X 2 1/2" GRADE 5
51		7115181050	6	CAP SCREW 1/2" - 13 N.C. X 1 1/4" GRADE 5
52		7115180850	4	CAP SCREW 1/2" - 13 N.C. X 1" GRADE 5
53		7690020810	2	PIN, COTTER

Manitowoc Crane Group

Description
BOOM ASSEMBLY

Assembly No.
2145900775
Revision: **A**

Item	FN	Part	Qty	Description
54		7660260008	2	NUT, HEX 1" - 8 N.C. GRADE 8
55		7660141601	20	LOCKNUT, HEX 1/4" - 20 N.C. GRADE 5
56		7660181600	2	LOCKNUT, HEX 1/2" - 13 N.C.
57		4146900100	4	PLATE, RETAINING
58		7949000235	0	WASHER, 1/2" I.D.
59		6705006599	4	PLATE
60		7110140623	10	CAP SCREW 1/4" - 20 N.C. X 1" GRADE 1
61		6705011716	4	SHIM
62		6671000257	4	PAD, "L" WEAR
63		6689000694	1	PIN
64		7690051610	2	PIN, COTTER 1/8" X 1"
65		7834000183	1	SPRING, COMPRESSION
66		7949000236	1	WASHER, 3/4" I.D.
67		7660221603	1	LOCKNUT, HEX 3/4" - 10 N.C. GRADE C
68		7690022410	1	PIN, COTTER
69		7246001320	1	CABLE ASSEMBLY 436-5/8"
70	+	2145300782	1	ROTATOR ASSEMBLY
71		6689000843	1	PIN
72		6689000841	1	PIN (CYLINDER ROD)
73		6689000842	1	PIN (CYLINDER BARREL)
74		7110152005	3	CAP SCREW 5/16" - 18 N.C. X 2 1/2" GRADE 1
75		7949000534	5	WASHER, HARDENED ROUND
76		7660151601	5	LOCKNUT 5/16" - 18 N.C.

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Crane Group

Description
BOOM ASSEMBLY

Assembly No.
2145900775
Revision: **A**

Item	FN	Part	Qty	Description
77		7115151450	2	GRADE 5 CAP SCREW 5/16" -18 N.C. X 1 3/4" GRADE 5
78		7950150050	2	LOCKWASHER, 5/16" I.D.
79		7950150141	2	WASHER, 5/16" I.D.
80	+	7926001362	1	VALVE ASSEMBLY - DUAL COUNTERBALANCE
81		7447040601	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755906002	1	O-RING
82		7447040603	2	FITTING, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755906002	1	O-RING
83		7910014136	1	TUBE
84		7910014137	1	TUBE
85		7110152405	2	CAP SCREW 5/16" - 18 N.C. X 3" GRADE 1
86	+	6372004779	1	CYLINDER ASSEMBLY - 3" SLAVE
87	+	NSS	1	POWER BRIDGE INSTALLATION
88	+	NSS	1	REAR BOOM COVER INSTALLATION
107	+	6246001619	1	CABLE ASSEMBLY - BOOM
108	+	6246001191	1	CABLE ASSEMBLY - BOOM
109		6246002754	1	CABLE ASSY - 110 VAC POWER INCLUDES THE FOLLOWING PARTS
		7345191906	6	TERMINAL 12 - 10 AWG
110		7543001662	1	HOSE ASSEMBLY, TWIN LINE 774" LONG
111		7552021205	2	HOSE ASSY 1/4" I.D. X 21"
112		7445060631	2	ELBOW, 90 DEGREE
113		7552762205	2	HOSE ASSEMBLY 1/4" I.D.

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Crane Group

Description

BOOM ASSEMBLY

Assembly No.

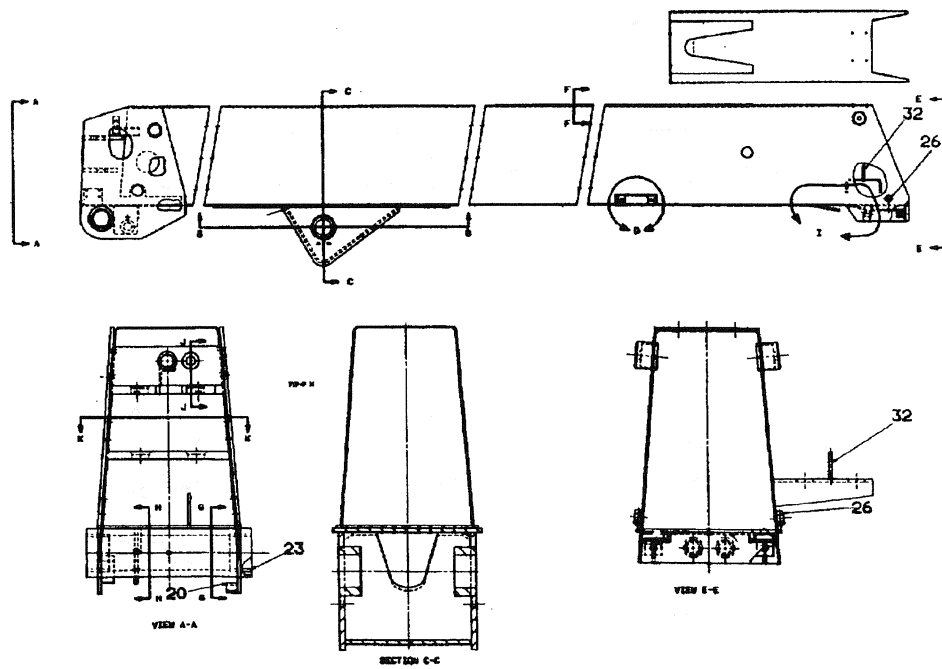
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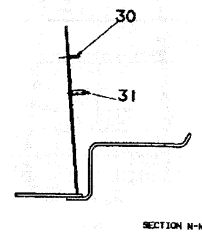
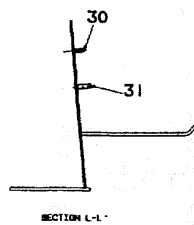
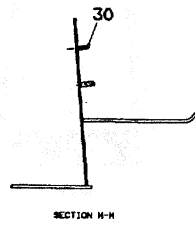
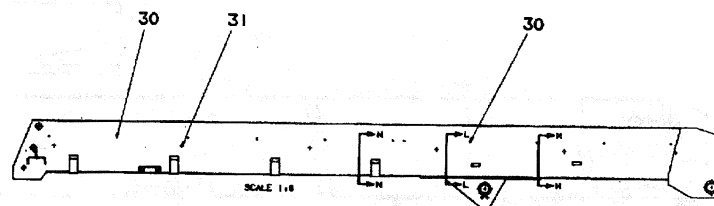
Revision: **A**

Item	FN	Part	Qty	Description
114		7445060643	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755906002	1	O-RING
115		7447040401	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
116		4146900102	1	PLATE

Manitowoc Crane Group

Notes





Manitowoc Crane Group

Description

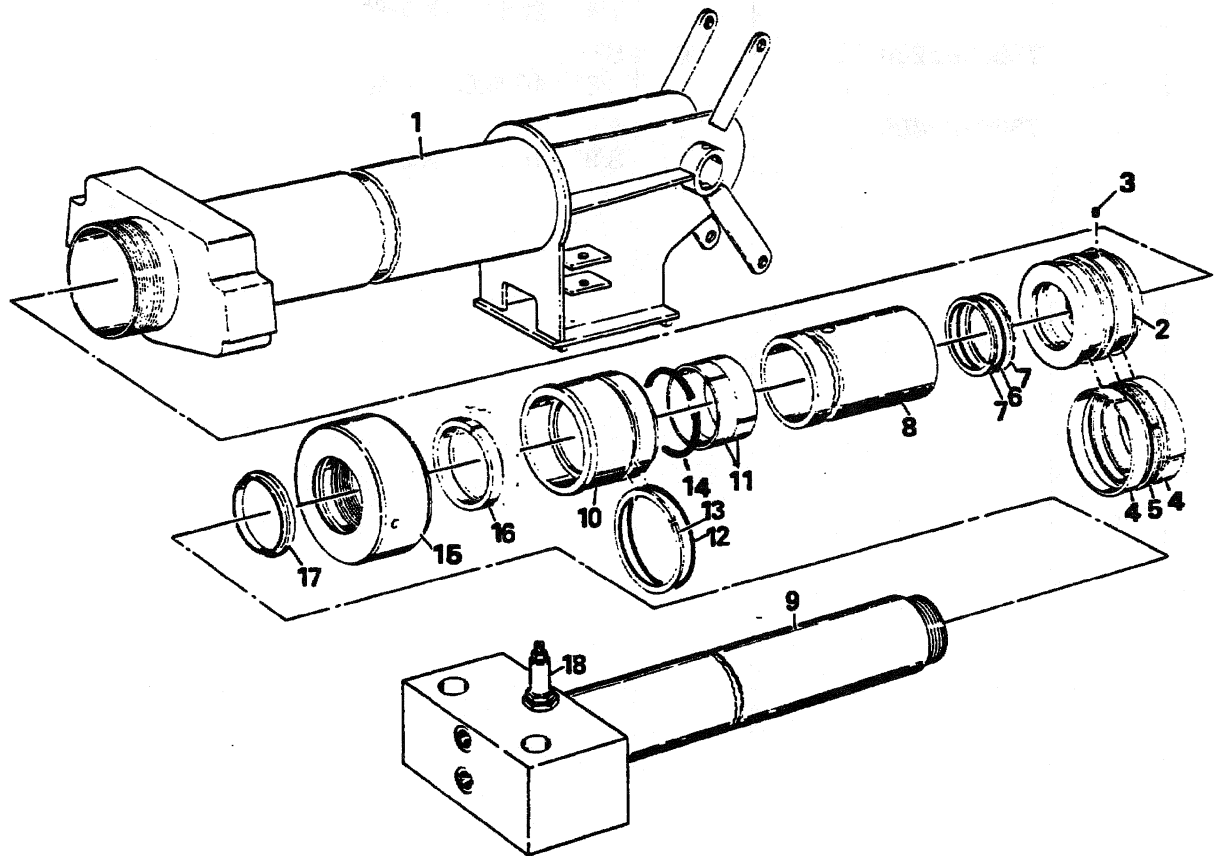
BASE SECTION - BOOM

Assembly No.

2145900716

Revision: **D**

Item	FN	Part	Qty	Description
20		6705011789	1	PLATE, LIMIT SWITCH
23		7199001719	2	BUSHING
26		7659000832	2	NUT, HEX 3/4" - 10 N.C.
30		7866142140	11	STUD 1/4" - 20 N.C. X 7/8"
31		7866162200	6	STUD 3/8" - 16 N.C. X 1 1/4"
32		7866162400	1	STUD 3/8" - 16 N.C. X 2 1/2"



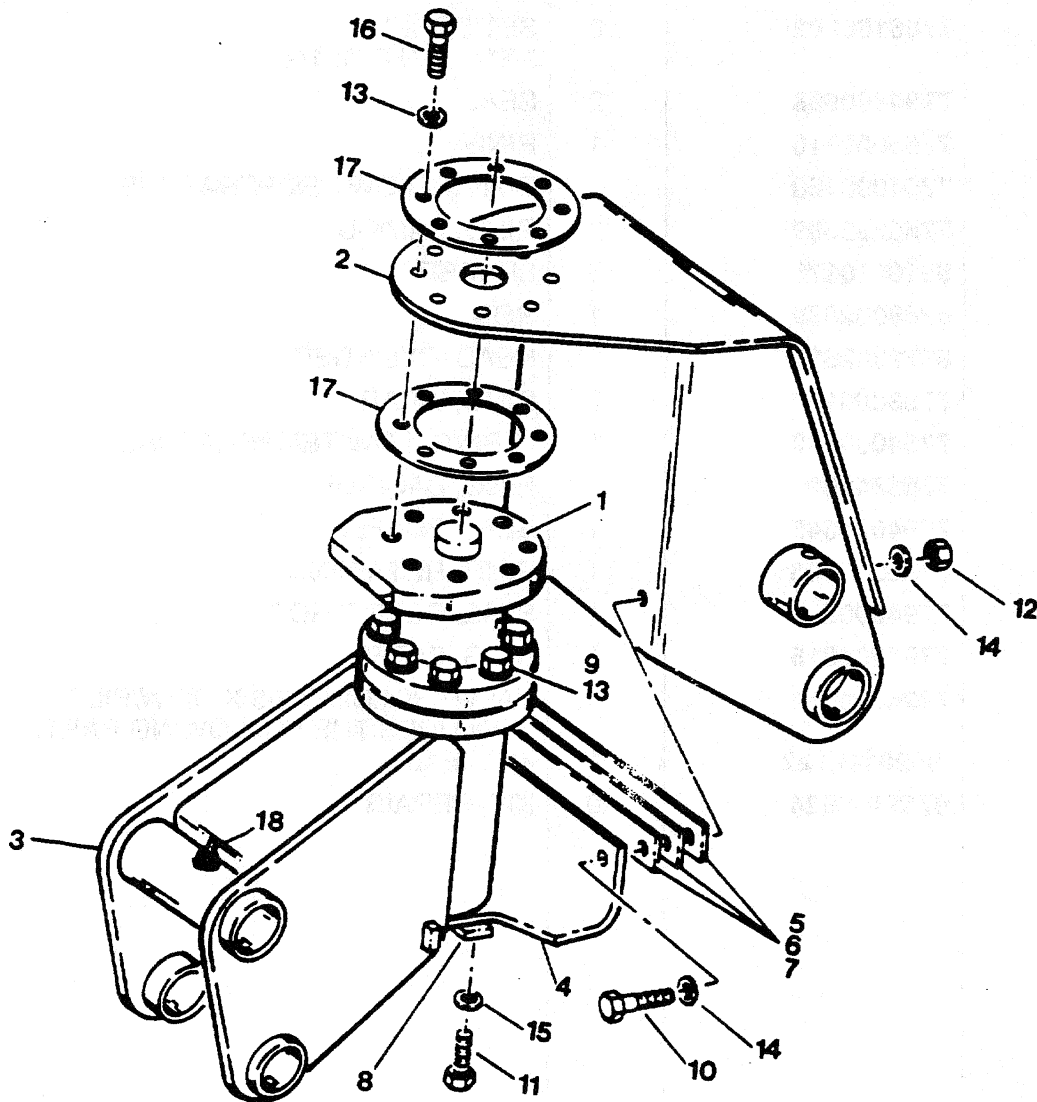
Manitowoc Crane Group

Description
CYLINDER ASSEMBLY - 4" TELESCOPE

Assembly No.
6372002817
Revision: **A**

Item	FN	Part	Qty	Description
1		6372002818	1	BARREL, CYLINDER
2		6701000296	1	PISTON
3		7785160802	2	SET SCREW 3/8" - 16 N.C. X 1/2"
4	*	7794000608	2	SEAL
5	*	7753000710	1	RING
6	*	7754000160	1	O-RING, LOW TEMPERATURE
7	*	7755332609	2	RING, BACK-UP
8		6910010176	1	SPACER
9		6768002039	1	ROD
10		6372002630	1	HEAD, CYLINDER
11	*	7753000150	2	RING, WEAR
12	*	7754000140	1	O-RING, LOW TEMPERATURE
13	*	7755342609	1	RING, BACK-UP
14	*	7794000545	1	SEAL, BUFFER
15		6753000703	1	RING, RETAINING
16	*	7794000627	1	SEAL, DEEP Z ROD
17	*	7794000015	1	RING, WIPER
18		7926000154	1	VALVE,HOLDING 3/8 X 1/2 W/PILO INCLUDES THE FOLLOWING PARTS
		9926112122	1	KIT,SEAL
19	*	9752100624	0	KIT, REPAIR

* REPAIR KIT AND/OR PART OF KIT



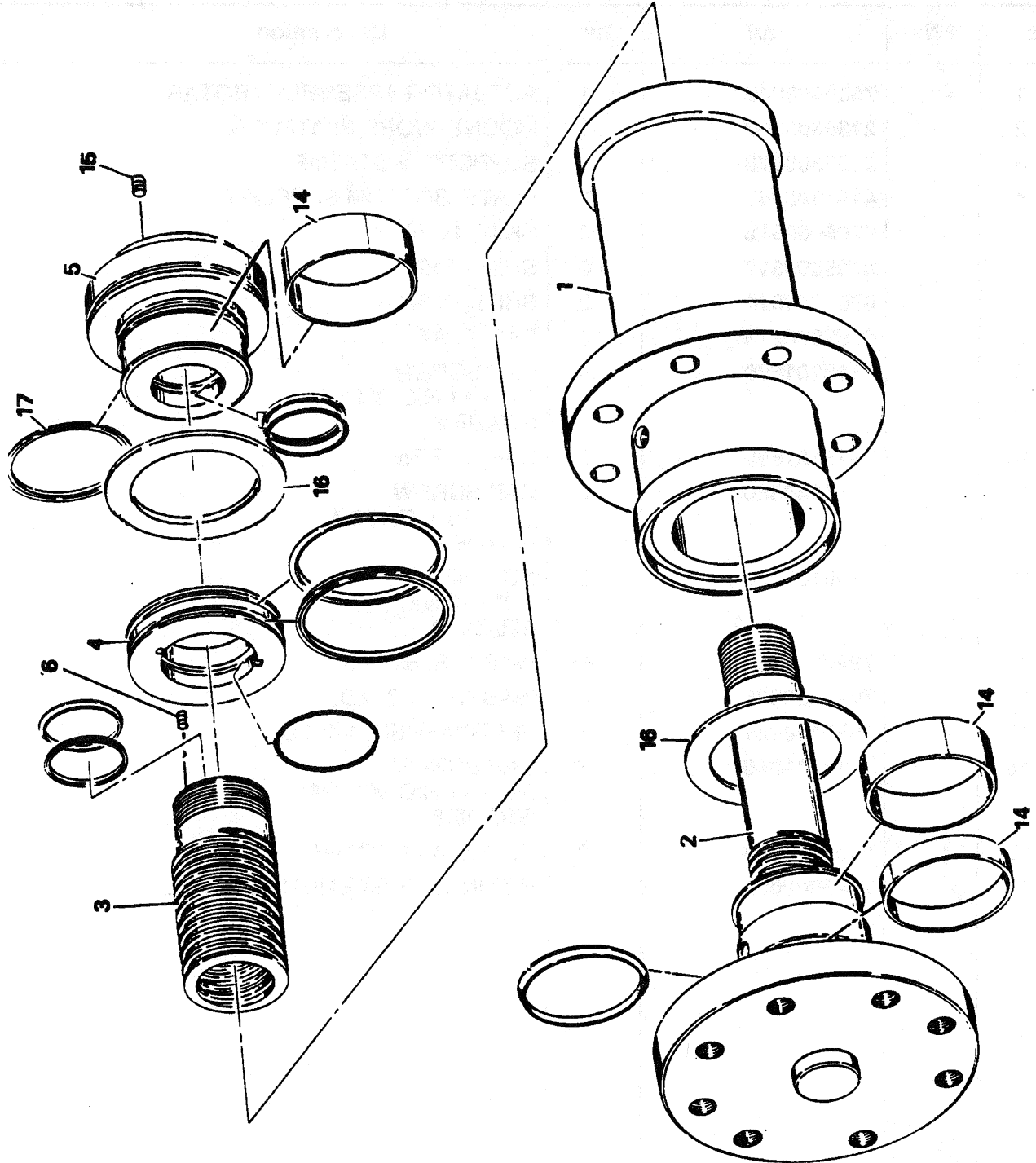
Manitowoc Crane Group

Description
ROTATOR ASSEMBLY

Assembly No.
2145300782
Revision: **B**

Item	FN	Part	Qty	Description
1	+	7009000042	1	ACTUATOR ASSEMBLY - ROTARY
2		2139300003	1	MOUNT, WORK PLATFORM
3		2152300023	1	SUPPORT, ROTATOR
4		4146300040	1	PLATE, BOTTOM SUPPORT
5		6705009516	0	SHIM .1495"
6		6705009517	0	SHIM (.1196")
7		6705009518	0	SHIM (.0359")
8		6059000213	2	BAR, FLAT
9		7118201650	8	CAP SCREW 5/8" - 11 N.C. X 2" GRADE 8
10		7115181650	2	CAP SCREW
11		7115140650	6	CAP SCREW 1/4" - 20 N.C. X 3/4" GRADE 5
12		7660180008	2	NUT, HEX 1/2" - 13 N.C. GRADE 8
13		7949000259	16	WASHER, 5/8" I.D.
14		7949000235	4	WASHER, 1/2" I.D.
15		7950140141	6	FLATWASHER, 1/4" I.D.
16		7118201850	8	CAP SCREW 5/8" - 11 N.C. X 2 1/4" GRADE 8
17		6705010598	2	PLATE, ADJUSTING
18		7440000000	1	FITTING, 1/8 STRAIGHT GREASE

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Crane Group

Description
ACTUATOR ASSEMBLY - ROTARY

Assembly No.
7009000042
Revision:

Item	FN	Part	Qty	Description
1		9009100129	1	HOUSING S/N 5464 THRU 8312
1		9009100259	1	HOUSING S/N 8313 AND ABOVE
2		9009100130	1	SHAFT S/N 5464 THRU 5660
2		9009100255	1	SHAFT S/N 5661 THRU 8312
2		9009100256	1	SHAFT S/N 8313 THRU 23245
2		9009100257	1	SHAFT S/N 23246 AND ABOVE
3		9009100131	1	SLEEVE
4		9009100132	1	PISTON
5		9009100133	1	CAP, END S/N 5464 THRU 5660
5		9009100252	1	CAP, END S/N 5661 THRU 8312
5		9009100258	1	CAP, END S/N 8313 THRU 11613
5		9009100253	1	CAP, END S/N 11614 THRU 23245
5		9009100254	1	CAP, END S/N 23246 AND ABOVE
6		9009100134	2	SET SCREW
14		9009100250	2	KIT, BEARING S/N 5464 THRU 8312
14		9009100251	1	KIT, BEARING S/N 8313 AND ABOVE INCLUDES NBR 16
15		9009100135	2	SET SCREW
16		9009100144	2	WASHER INCLUDED WITH NBR 14
17	*	NSS	2	PACKING, SHAFT
18	*	9009100236	0	KIT, REPAIR S/N 5464 THRU 5660
18	*	9009100212	0	KIT, REPAIR S/N 5661 THRU 11613

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Crane Group

Description

ACTUATOR ASSEMBLY - ROTARY

Assembly No.

7009000042

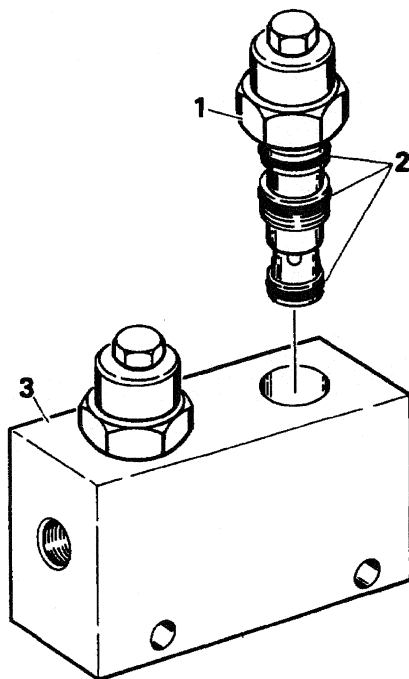
Revision:

Item	FN	Part	Qty	Description
18	*	9009100235	0	KIT, REPAIR S/N 11614 THRU 23245
18	*	9009100145	0	KIT, REPAIR S/N 23246 AND ABOVE

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Crane Group

Notes



Manitowoc Crane Group

Description

VALVE ASSEMBLY - DUAL COUNTERBALANCE

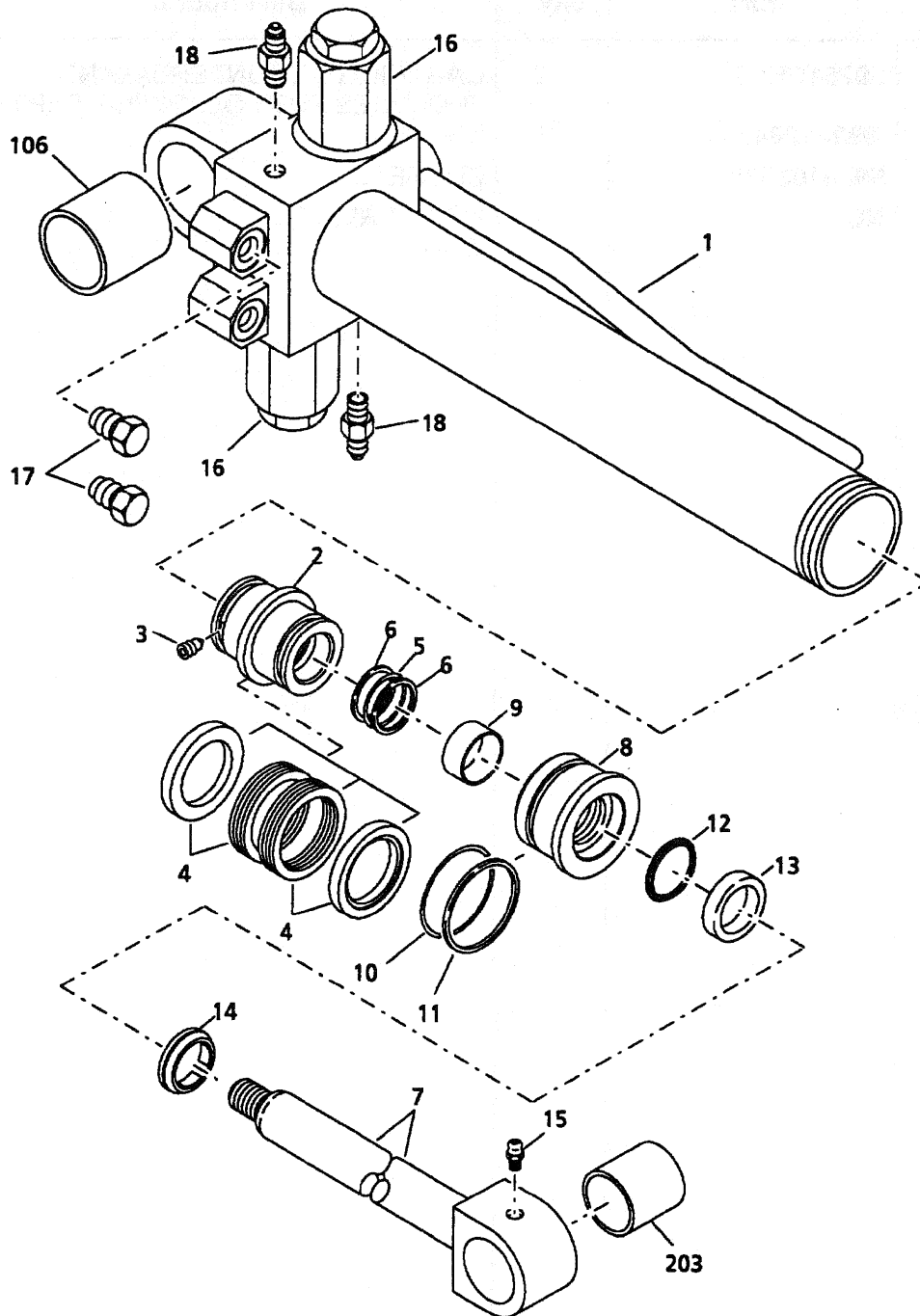
Assembly No.

7926001362

Revision:

Item	FN	Part	Qty	Description
1		9926105347	2	CARTRIDGE,COUNTERBALANCE
		9926103434	1	INCLUDES THE FOLLOWING PARTS
2		9926103434	2	KIT, SEAL
3	#	NS	1	KIT, SEAL
				NOT SERVICED
				BODY

SERVICED AS AN ASSEMBLY ONLY



Manitowoc Crane Group

Description

CYLINDER ASSEMBLY - 3" SLAVE

Assembly No.

6372004779

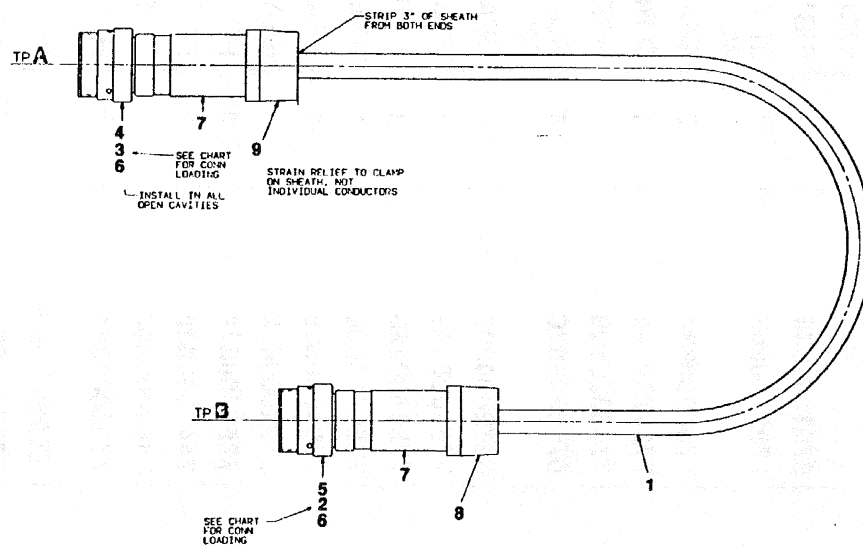
Revision: **B**

Item	FN	Part	Qty	Description
1		6372004395	1	BARREL, CYLINDER INCLUDES NBR 106
2		6701000933	1	PISTON, 3" CYLINDER
3		7785160802	1	SET SCREW 3/8" - 16 N.C. X 1/2"
4	*	7794000684	2	SEAL
5	*	7754000144	1	O-RING, LOW TEMPERATURE
6	*	7755325609	2	RING, BACK-UP
7		6768003570	1	ROD ASSEMBLY INCLUDES NBR 203
8		6372004392	1	HEAD, CYLINDER
9	*	7753000199	1	RING, WEAR
10	*	7754000123	1	O-RING, LOW TEMPERATURE
11	*	7755334609	1	RING, BACK-UP
12	*	7794000586	1	SEAL, BUFFER
13	*	7794000603	1	SEAL, DEEP Z ROD
14	*	7753000679	1	RING, ROD WIPER
15		7440000000	1	FITTING, 1/8 STRAIGHT GREASE
15		7440000000	2	FITTING, 1/8 STRAIGHT GREASE
16	#	7926002351	2	HOLDING VALVE INCLUDES THE FOLLOWING PARTS
		9926112595	1	KIT, SEAL
17		7709000031	2	PLUG, SAE #6 INCLUDES THE FOLLOWING PARTS
		7755906002	1	O-RING
18		7445040443	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755904002	1	O-RING
106		6199001424	1	BUSHING
203		6199001424	1	BUSHING
204	*	9752100974	0	KIT, REPAIR

* REPAIR KIT AND/OR PART OF KIT

SERVICED AS AN ASSEMBLY ONLY

WIRE COLOR	CONNECTOR CAVITY TP "A"	B/H ITEM NO.	CONNECTOR CAVITY TP "B"	B/H ITEM NO.
BLACK	A	4	A	5
WHITE	B	4	B	5
RED	C	4	C	5
GREEN	D	4	D	5
ORANGE	E	4	E	5
BLUE	F	4	F	5
WHITE/BLK	G	4	G	5
RED/BLK	H	4	H	5
GREEN/BLK	J	4	J	5
DRN/BLK	K	4	K	5
BLK/BLK	L	4	L	5
BLK/WHITE	M	4	M	5
RED/WHITE	N	4	N	5
GREEN/WHI	O	4	O	5
BLK/WHITE	P	4	P	5
BLK/RED	Q	4	Q	5
WHI/RED	R	4	R	5
DRN/RED	S	4	S	5
BLU/RED	T	4	T	5
RED/GREEN	U	4	U	5
DRN/GREEN	V	4	V	5
	W	6	W	6
	X	6	X	6



Manitowoc Crane Group

Description

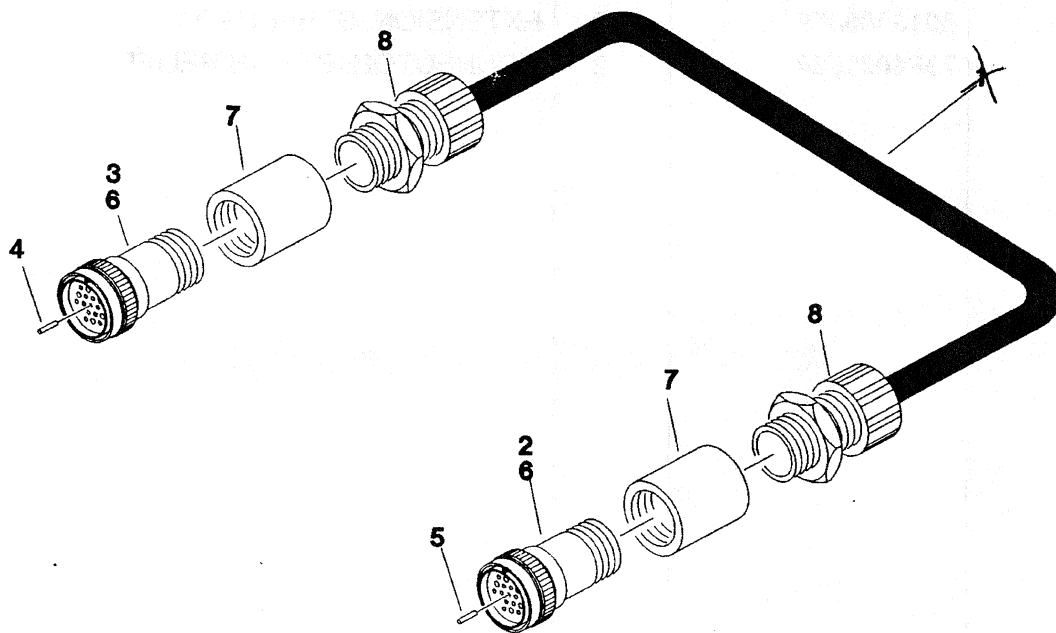
CABLE ASSEMBLY - BOOM

Assembly No.

6246001619

Revision: **B**

Item	FN	Part	Qty	Description
2		7709000226	1	PLUG 23 SOCKET
3		7709000206	1	PLUG
4		7689000704	21	PIN 14 - 16 AWG
5		7826000087	21	SOCKET, 16-14 GA
6		7689000503	4	PLUG, SEALING 16 - 12 AWG
7		6013000459	2	EXTENSION, STRAIN RELIEF
8		7364001524	2	CONNECTOR, STRAIN RELIEF



Manitowoc Crane Group

Description

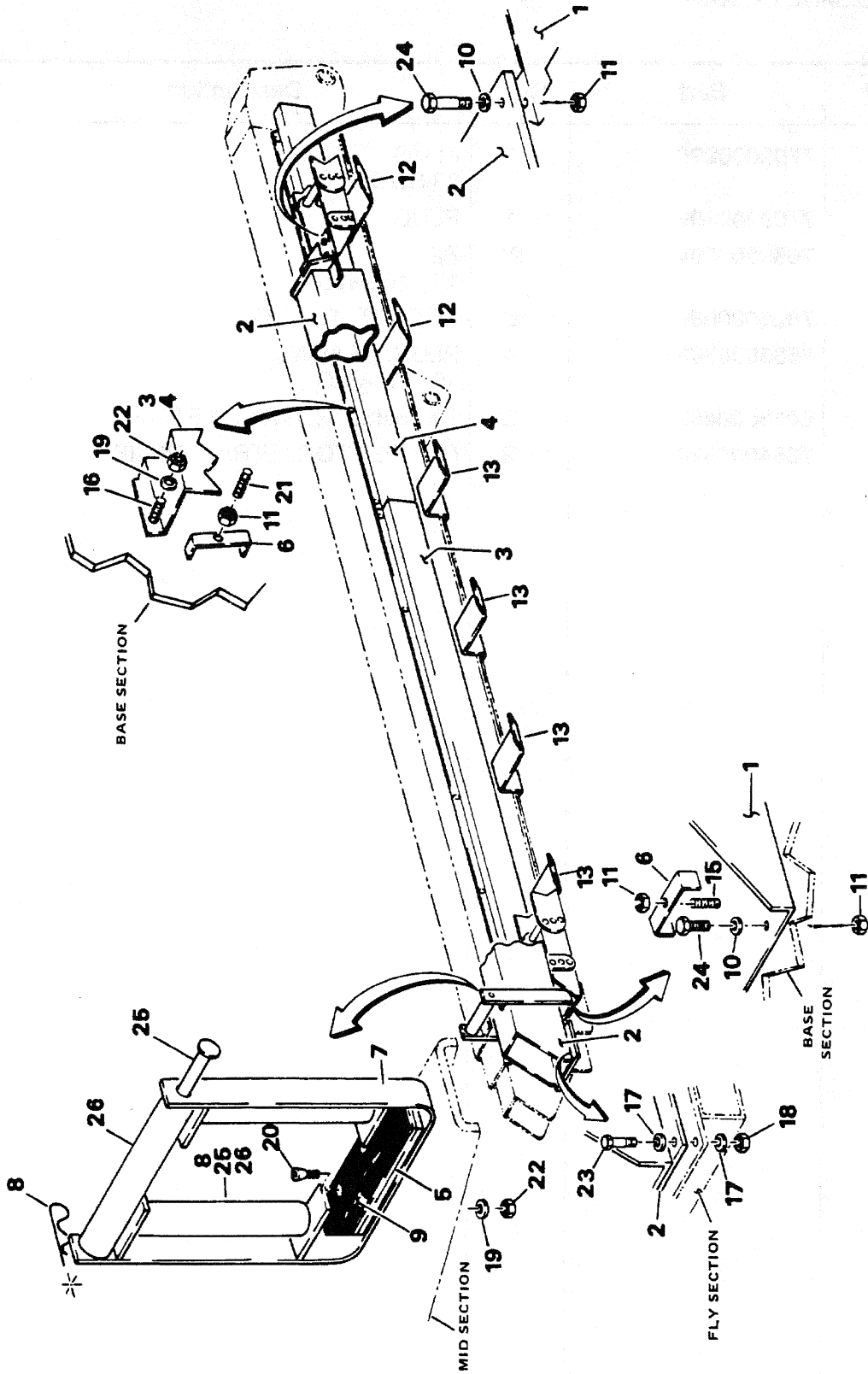
CABLE ASSEMBLY - BOOM

Assembly No.

6246001191

Revision: **B**

Item	FN	Part	Qty	Description
2		7709000226	1	PLUG 23 SOCKET
3		7709000206	1	PLUG
4		7689000704	21	PIN 14 - 16 AWG
5		7826000087	21	SOCKET, 16-14 GA
6		7689000503	4	PLUG, SEALING 16 - 12 AWG
7		6013000459	2	EXTENSION, STRAIN RELIEF
8		7364001524	2	CONNECTOR, STRAIN RELIEF



Manitowoc Crane Group

Description

POWER BRIDGE INSTALLATION (NOT AVAILABLE AS ASSEMBLY)

Assembly No.

2145900049

Revision: **G**

Item	FN	Part	Qty	Description
1	+	7360000023	1	POWER BRIDGE ASSEMBLY
2		2145900806	1	SUPPORT, POWER TRACK
3		4145900043	1	COVER, CENTER
4		4149900021	1	COVER, REAR
5		6705010692	0	SHIM .0478"
6		6300000282	7	CLAMP
7		6869000574	1	SUPPORT
8		7312000095	1	CLIP, PIN
9		4146900009	1	PAD, WEAR
10		7950160141	16	FLATWASHER, 3/8" I.D.
11		7660161600	15	LOCKNUT, HEX 3/8" - 16 N.C.
12		4145900012	2	GUIDE, SUPPORT
13		4145900044	4	BRACKET, SUPPORT
15		7866162400	1	STUD 3/8" - 16 N.C. X 2 1/2"
16		7866142140	11	STUD 1/4" - 20 N.C. X 7/8"
17		7950150142	10	WASHER, 5/16" I.D.
18		7660151601	5	LOCKNUT 5/16" - 18 N.C. GRADE 5
19		7950140141	15	FLATWASHER, 1/4" I.D.
20		7110141023	2	CAP SCREW 1/4" - 20 N.C. X 1 1/4" GRADE 1
21		7866162200	6	STUD 3/8" - 16 N.C. X 1 1/4"
22		7660141601	15	LOCKNUT, HEX 1/4" - 20 N.C. GRADE 5
23		7115151250	5	CAP SCREW 5/16" - 18 N.C. X 1 1/2" GRADE 5
24		7110161018	8	CAP SCREW 3/8" - 16 N.C. X 1 1/4" GRADE 1

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Crane Group

Description

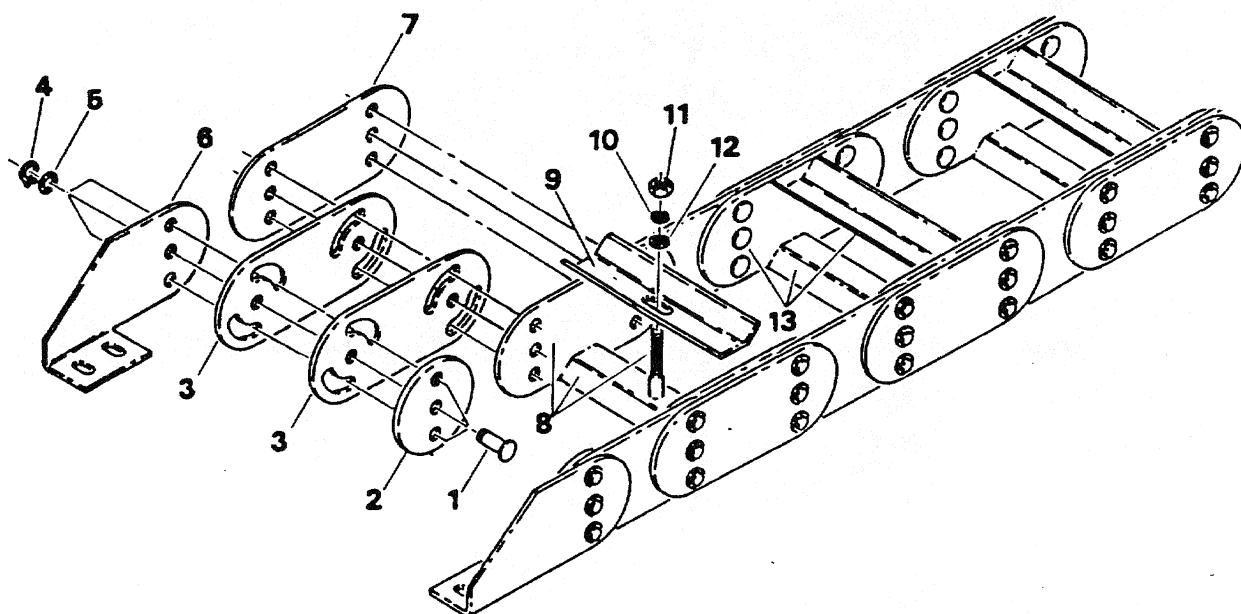
POWER BRIDGE INSTALLATION (NOT AVAILABLE AS ASSEMBLY)

Assembly No.

2145900049

Revision: **G**

Item	FN	Part	Qty	Description
25		7690159600	3	PIN, CLEVIS 5/16" X 6"
26		4143900027	3	PAD, WEAR - ROLLER



Manitowoc Crane Group

Description

POWER BRIDGE ASSEMBLY

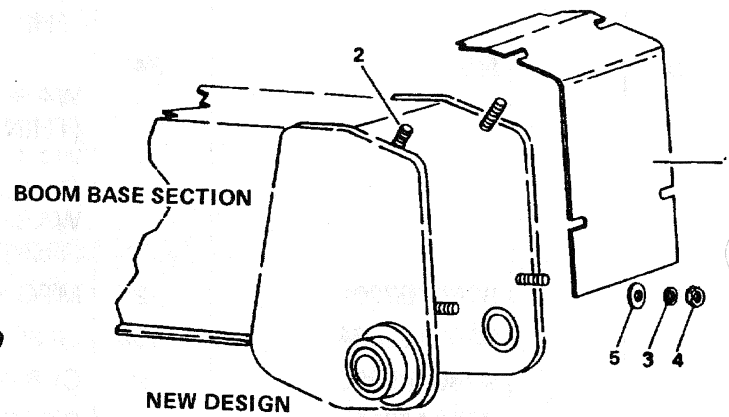
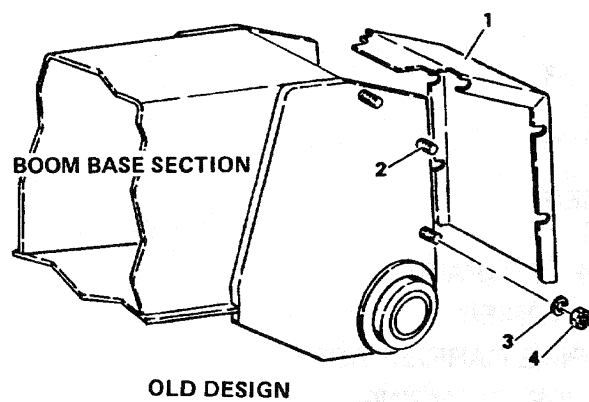
Assembly No.

7360000023

Revision:

Item	FN	Part	Qty	Description
1	*	NSS	342	PIN
2		9360100013	4	CAP, END
3		9360100063	116	LINK, RADIUS
4	*	NSS	342	RING, SNAP
5	*	NSS	342	WASHER (THIN) WASHER (THICK) WASHER (THIN)
5		NSS	342	WASHER (THIN) WASHER (THICK) WASHER (THIN)
6		9360100061	2	MTG.-FEET (PAIR)
7		9360100064	108	LINK, CARRIER
8		9360100065	2	CLAMPING CARRIER ASSY
9		9360100057	2	STIFFNER, CLAMPING
10		7950140050	2	LOCKWASHER, 1/4" I.D.
11		7660140000	2	NUT, HEX 1/4" - 20 N.C.
12		7950140141	2	FLATWASHER, 1/4" I.D.
13		9360100066	26	CARRIER, PLAIN
14	*	9360100048	0	LINK KIT INCLUDES 2 WASHERS, 1 PIN, & 1 SNAP RING

* REPAIR KIT AND/OR PART OF KIT



Manitowoc Crane Group

Description

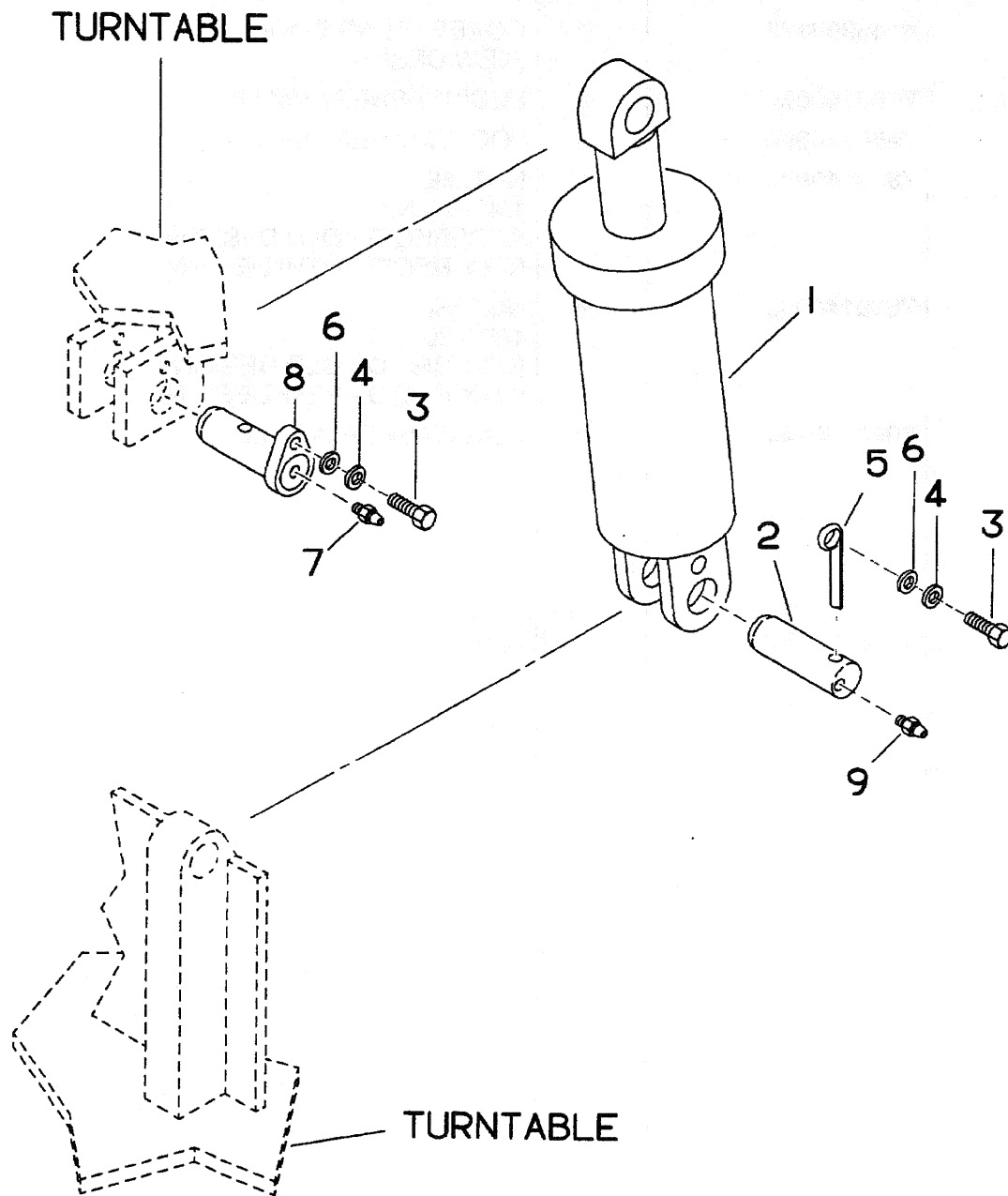
**COVER INSTALLATION - REAR BOOM
(NOT AVAILABLE AS ASSEMBLY)**

Assembly No.

2146900023

Revision: **C**

Item	FN	Part	Qty	Description
1		4146900122	1	COVER, REAR BOOM (NEW DESIGN)
3		7950140050	6	LOCKWASHER, 1/4" I.D.
3		7950140050	4	LOCKWASHER, 1/4" I.D.
4		7660140000	6	NUT, HEX 1/4" - 20 N.C. (QTY REQ'D - OLD DESIGN) (QTY REQ'D - NEW DESIGN)
4		7660140000	4	NUT, HEX 1/4" - 20 N.C. (QTY REQ'D - OLD DESIGN) (QTY REQ'D - NEW DESIGN)
5		7950140141	4	FLATWASHER, 1/4" I.D.



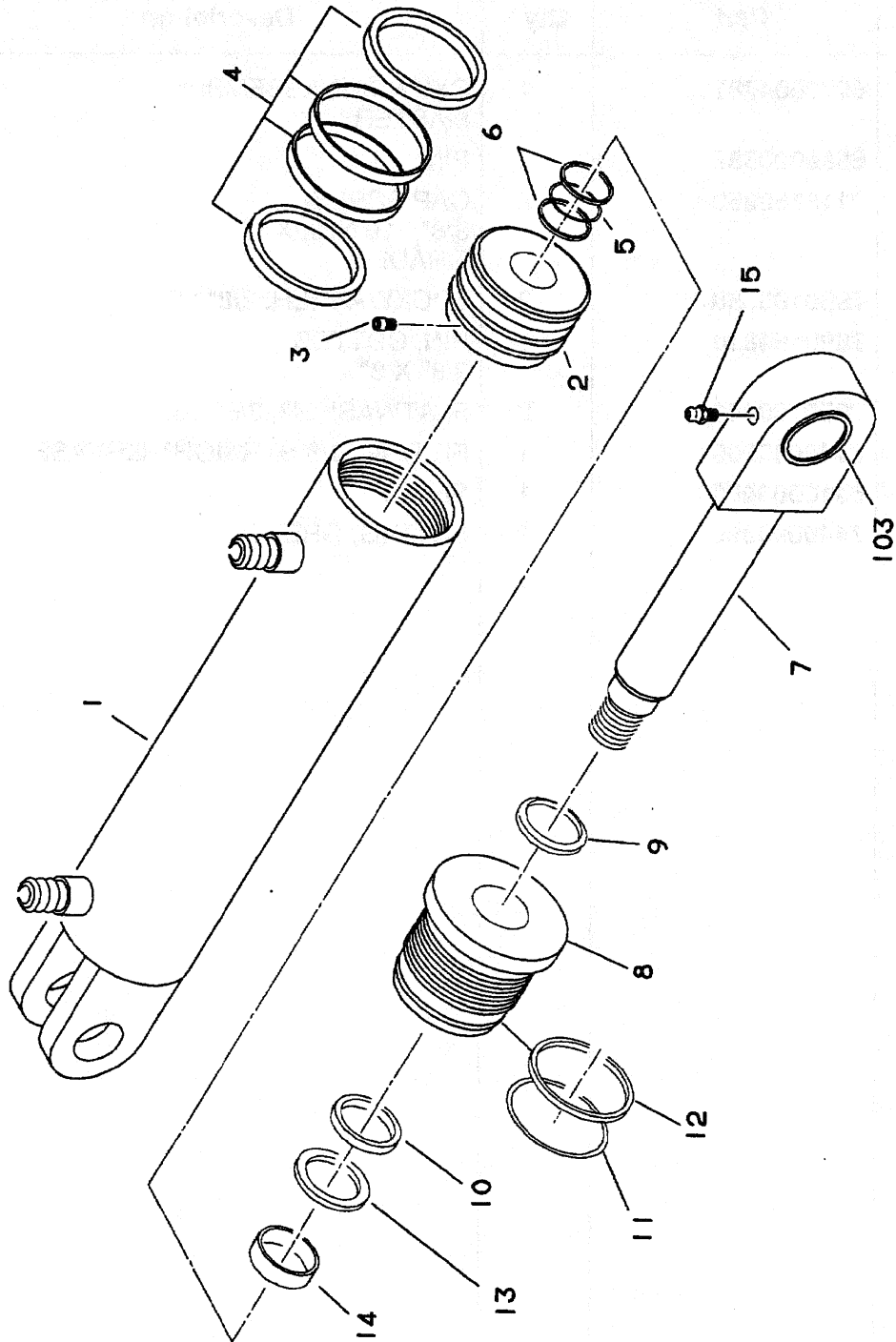
Manitowoc Crane Group

Description
LEVELING CYLINDER INSTALLATION - MASTER

Assembly No.
6372004786
Revision: **A**

Item	FN	Part	Qty	Description
1	+	6372004781	1	CYLINDER ASSEMBLY - MASTER
2		6689000557	1	PIN
3		7115160850	2	CAP SCREW 3/8" - 16 N.C. X 1" GRADE 5
4		7950160050	2	LOCKWASHER, 3/8" I.D.
5		7690164810	1	PIN, COTTER 3/8" X 3"
6		7950160141	2	FLATWASHER, 3/8" I.D.
7		7440000000	1	FITTING, 1/8 STRAIGHT GREASE
8		6810003465	1	SHAFT
9		7440090000	1	FITTING, GREASE

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Crane Group

Description

CYLINDER ASSEMBLY - MASTER

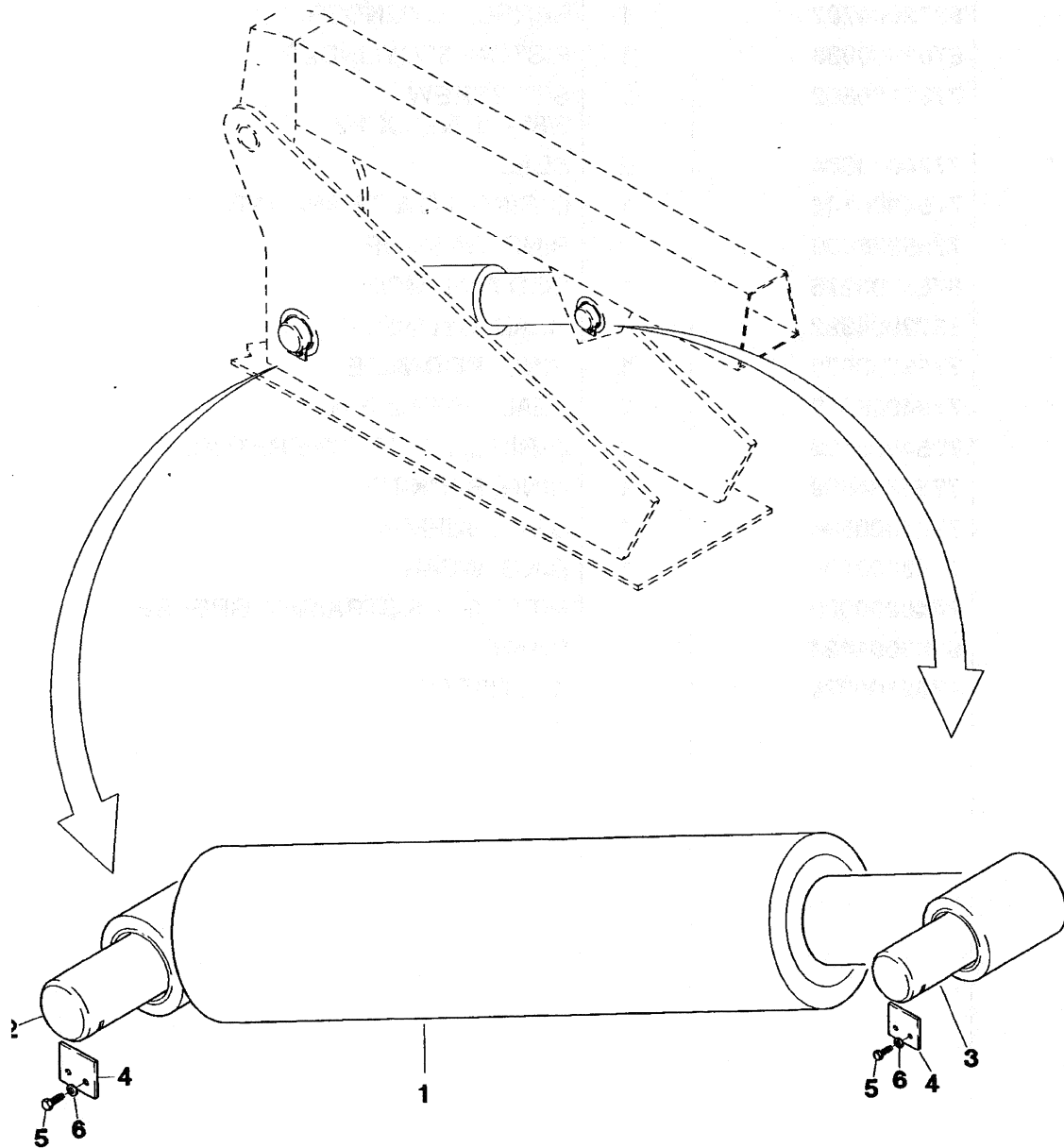
Assembly No.

6372004781

Revision: **A**

Item	FN	Part	Qty	Description
1		6372004782	1	BARREL, CYLINDER
2		6701000933	1	PISTON, 3" CYLINDER
3		7785160802	1	SET SCREW 3/8" - 16 N.C. X 1/2"
4	*	7794000684	2	SEAL
5	*	7754000144	1	O-RING, LOW TEMPERATURE
6	*	7755325609	2	RING, BACK-UP
7		6768003276	1	ROD ASSEMBLY
8		6372004392	1	HEAD, CYLINDER
9	*	7753000679	1	RING, ROD WIPER
10	*	7794000603	1	SEAL, DEEP Z ROD
11	*	7754000123	1	O-RING, LOW TEMPERATURE
12	*	7755334609	1	RING, BACK-UP
13	*	7794000586	1	SEAL, BUFFER
14	*	7753000199	1	RING, WEAR
15		7440000000	1	FITTING, 1/8 STRAIGHT GREASE
103		6199001424	1	BUSHING
104	*	9752100974	0	KIT, REPAIR

* REPAIR KIT AND/OR PART OF KIT



Manitowoc Crane Group

Description

CYLINDER INSTALLATION - LIFT

Assembly No.

6372002830

Revision: **B**

Item	FN	Part	Qty	Description
1	+	6372002810	1	CYLINDER ASSEMBLY - LIFT
2		6810001855	1	SHAFT
3		6810001806	1	SHAFT
4		6705009449	2	PLATE
5		7115181050	4	CAP SCREW 1/2" - 13 N.C. X 1 1/4" GRADE 5
6		7949000235	4	WASHER, 1/2" I.D.

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Crane Group

Description

CYLINDER ASSEMBLY - LIFT

Assembly No.

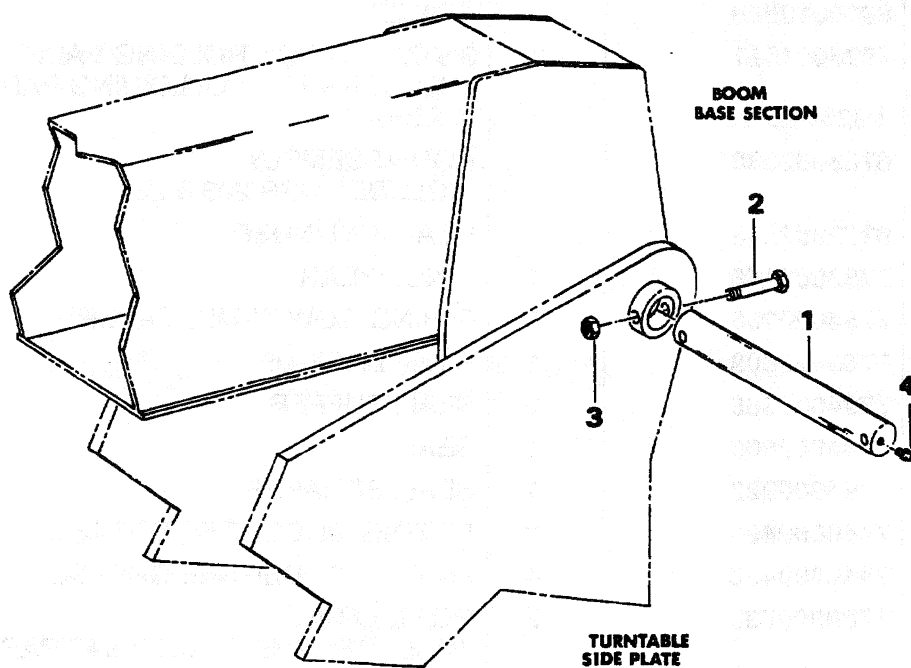
6372002810

Revision: **E**

Item	FN	Part	Qty	Description
1		6372002811	1	BARREL, CYLINDER INCLUDES NBR 103
2		6701000294	1	PISTON
4	*	7794000622	2	SEAL
5	*	7753000718	1	RING, GUIDE LOCK
6	*	7754000140	1	O-RING, LOW TEMPERATURE
7	*	7755342609	2	RING, BACK-UP
8		6910010509	1	SPACER
9	+	7926001571	1	3/8 CARTRIDGE HOLDING VALVE INCLUDES THE FOLLOWING PARTS
	+	9926112122	1	KIT, SEAL
10		6768002030	1	ROD ASSEMBLY INCLUDES NBR 203 & 204
11		6372002813	1	HEAD, CYLINDER
12	*	7753000148	1	RING, WEAR
13	*	7754000135	1	O-RING, LOW TEMPERATURE
14	*	7755425609	1	RING, BACK-UP
15	*	7794000568	1	SEAL, BUFFER
16	*	7794000605	1	SEAL
17	*	7794000022	1	SEAL, SCRAPER
19		7440000400	2	FITTING, 90 DEGREE GREASE
19		7440000400	4	FITTING, 90 DEGREE GREASE
20		7709000038	2	PLUG, O-RING INCLUDES THE FOLLOWING PARTS
		7755908002	1	O-RING
103		7199000993	2	BUSHING
203		7199001037	2	BUSHING
204		6199001443	1	BUSHING
205	*	9752100625	0	KIT, REPAIR

* REPAIR KIT AND/OR PART OF KIT

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Crane Group

Description

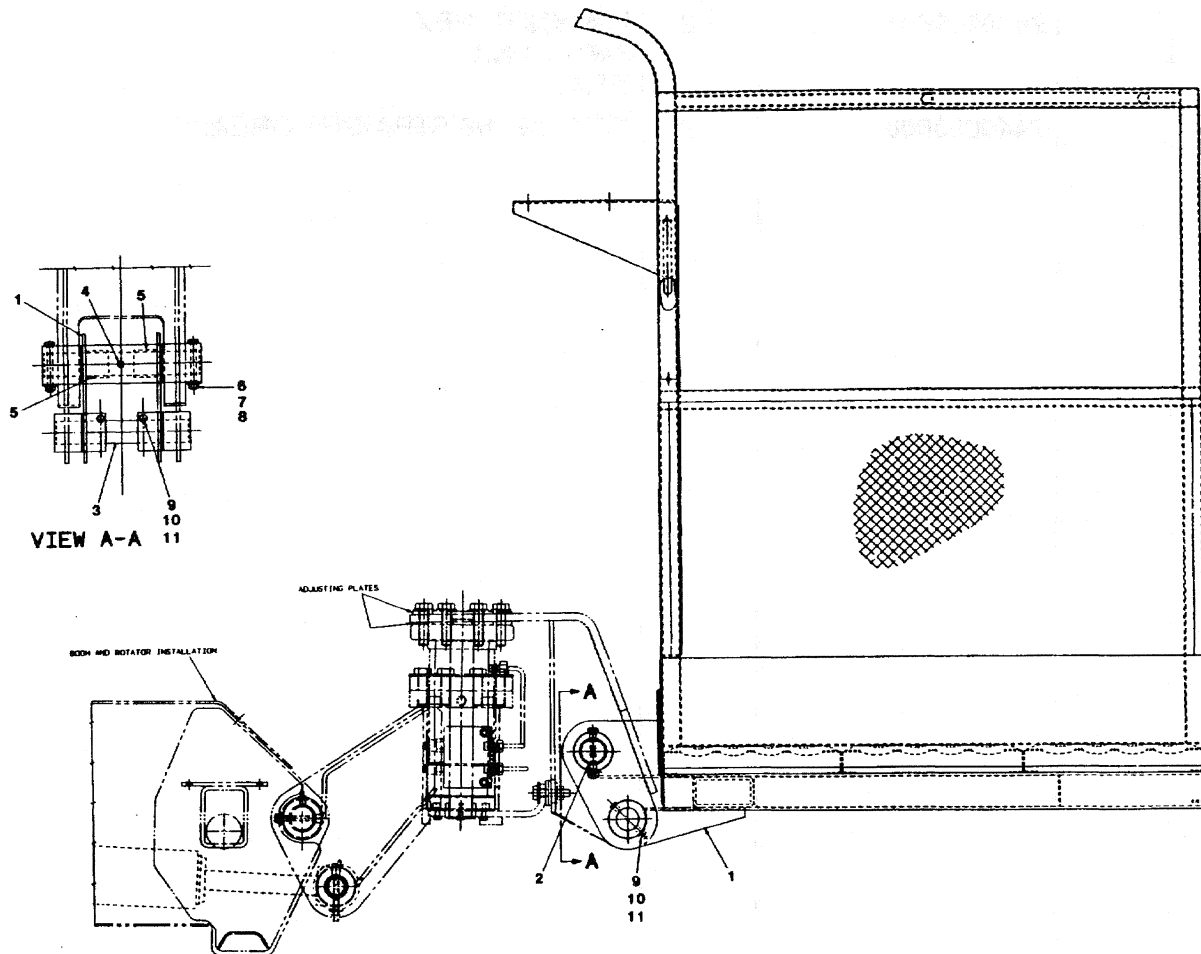
PIVOT SHAFT INSTALLATION - BOOM

Assembly No.

6810001988

Revision: #

Item	FN	Part	Qty	Description
1		6810001990	1	SHAFT, PIVOT
2		7115204450	2	CAP SCREW 5/8" - 11 N.C. X 5 1/2" GRADE 5
3		7660201601	2	LOCKNUT, HEX 5/8" - 11 N.C. GRADE 5
4		7440000000	2	FITTING, 1/8 STRAIGHT GREASE



Manitowoc Crane Group

Description

PLATFORM INSTALLATION

Assembly No.

2145300780

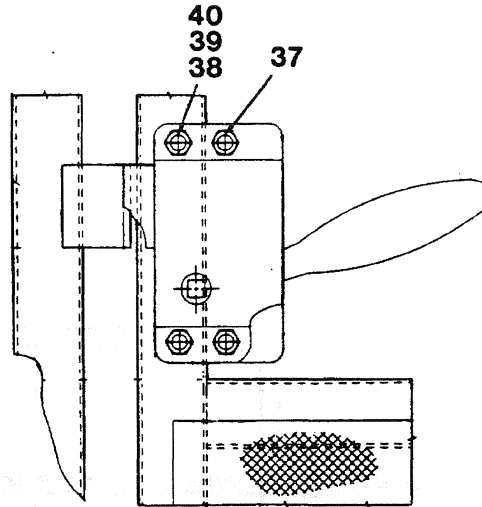
Revision: #

Item	FN	Part	Qty	Description
1	+	2145300781	1	PLATFORM
2		6810001790	1	SHAFT
3		6810001981	1	SHAFT
4		7444010011	1	PLUG, PIPE 1/8" N.P.T.
5		7199001374	2	BUSHING
6		7949000263	2	WASHER, HARDENED
7		7115162450	2	CAP SCREW 3/8" - 16 N.C. X 3" GRADE 5
8		7660161601	2	LOCKNUT, HEX 3/8" - 16 N.C. GRADE 5
9		7115142450	2	CAP SCREW 1/4" - 20 N.C. X 3" GRADE 5
10		7660141601	2	LOCKNUT, HEX 1/4" - 20 N.C. GRADE 5
11		7950140141	2	FLATWASHER, 1/4" I.D.

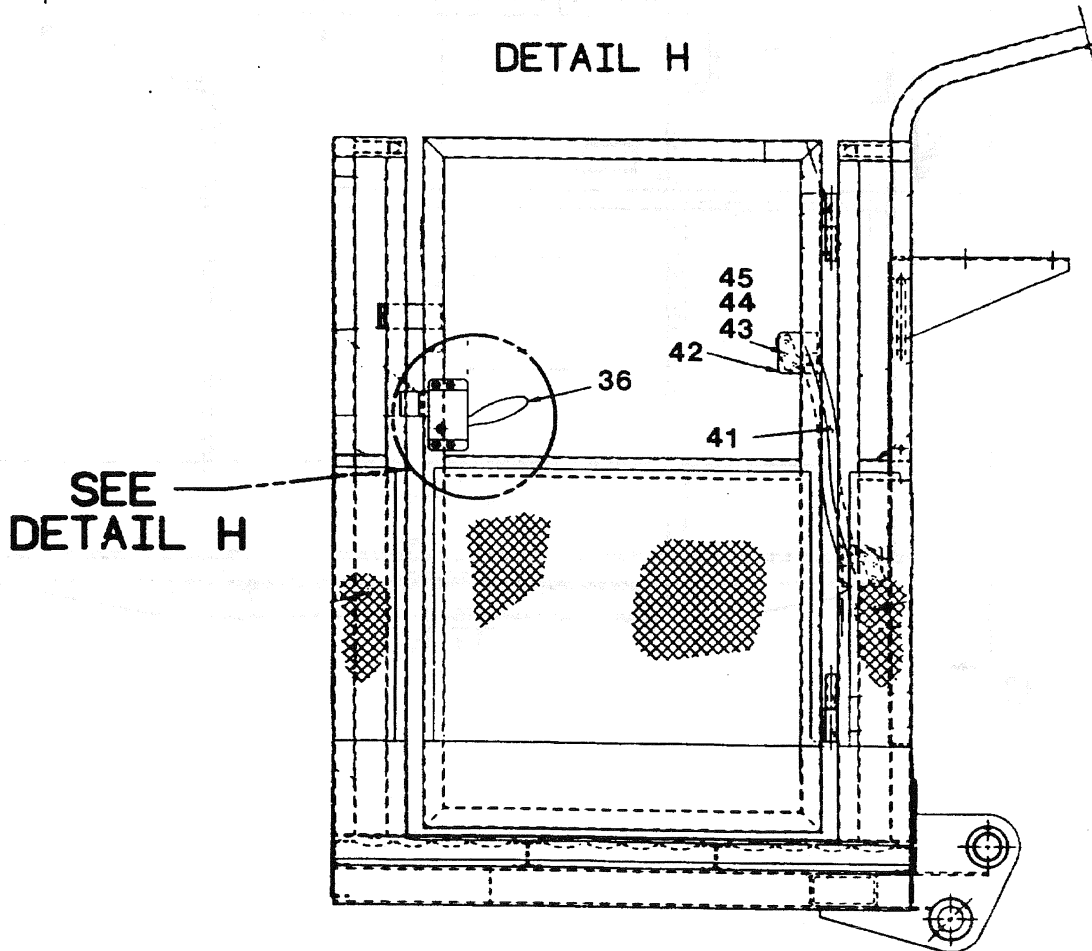
+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Crane Group

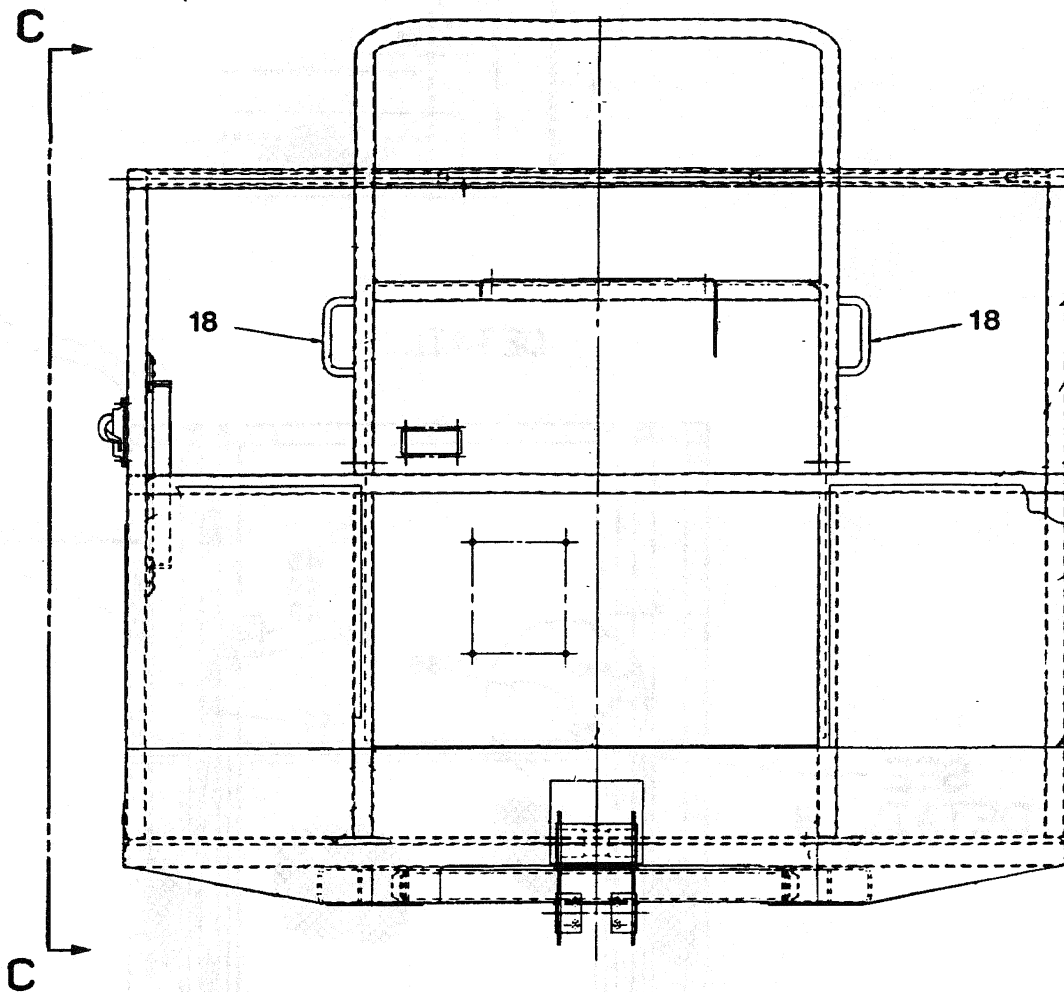
Notes



DETAIL H



VIEW C-C



Manitowoc Crane Group

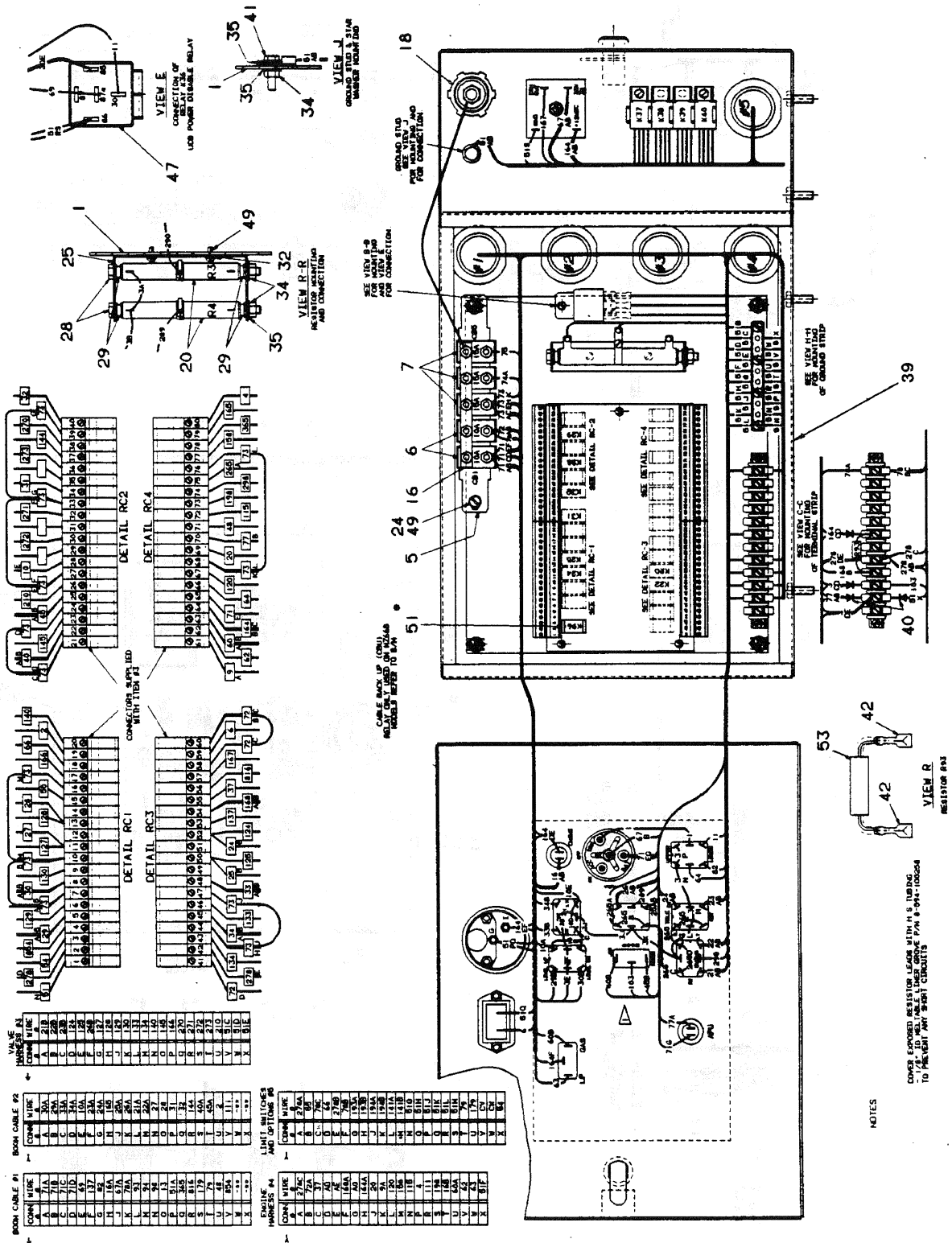
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PLATFORM

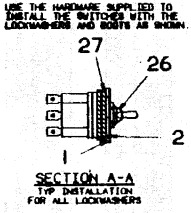
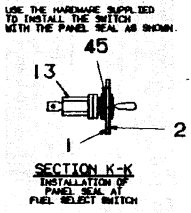
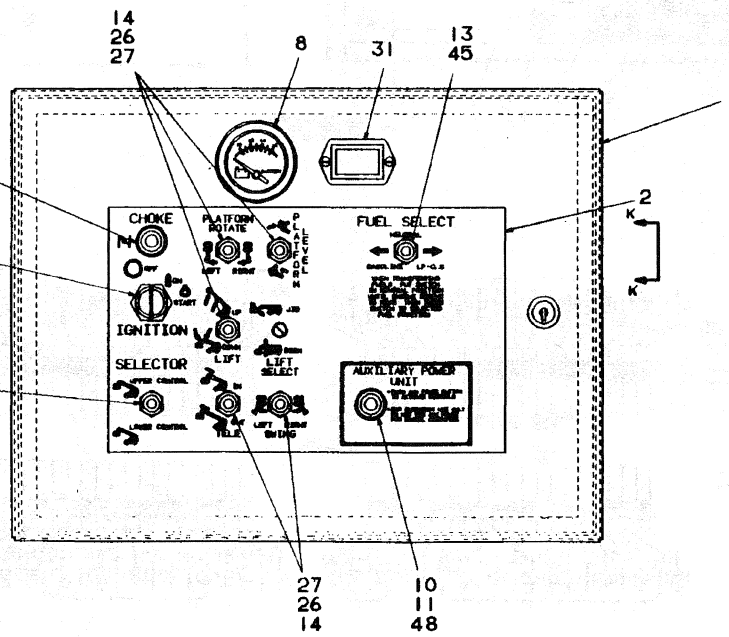
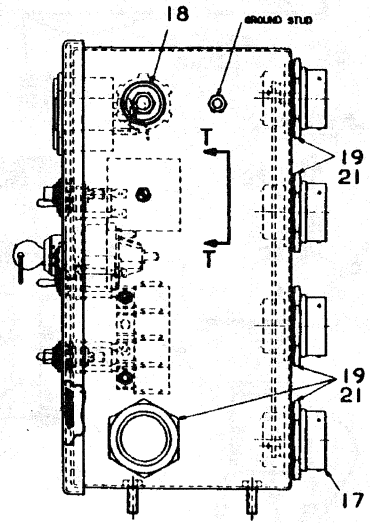
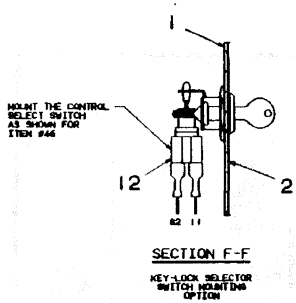
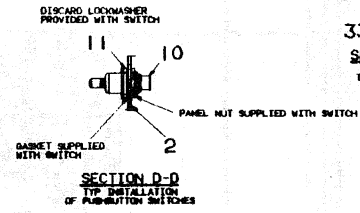
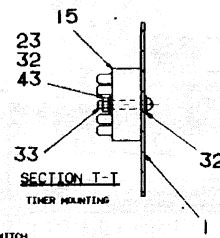
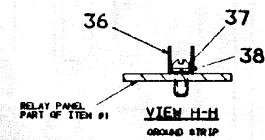
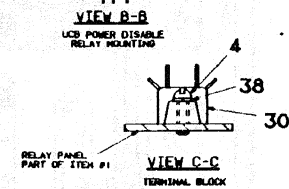
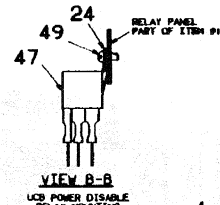
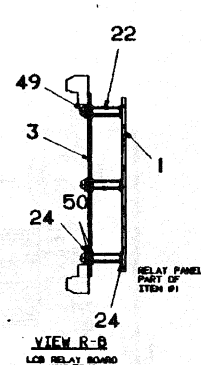
Assembly No.
2145300781
Revision: **A**

Item	FN	Part	Qty	Description
18		6511000049	2	HANDLE
36		7511000017	1	HANDLE, INSIDE LEFT HAND
37		7115140650	2	CAP SCREW 1/4" - 20 N.C. X 3/4" GRADE 5
38		7115141650	2	CAP SCREW 1/4" - 20 N.C. X 2" GRADE 5
39		7660140000	4	NUT, HEX 1/4" - 20 N.C.
40		7950140050	4	LOCKWASHER, 1/4" I.D.
41		7834000184	1	SPRING, DOOR
42		6705010429	2	PLATE
43		7111100610	6	SCREW, MACHINE 3/16" - 24 N.C. X 3/4" GRADE 1
44		7660101100	6	NUT, HEX 3/16" - 32 N.F. GRADE 1
45		7950100050	6	LOCKWASHER, 3/16" I.D.

Manitowoc Crane Group

Notes





Manitowoc Crane Group

Description
LOWER CONTROL BOX ASSEMBLY (GAS)

Assembly No.
6176002865
Revision: #

Item	FN	Part	Qty	Description
1	+	6176002827	1	CONTROL BOX ASSEMBLY - LOWER
2		7376010050	1	DECAL - LOWER CONTROL BOX (DOMESTIC)
3	+	6750000729	1	RELAY BOARD ASSEMBLY - MODIFIED
4		7111060410	2	SCREW, MACHINE #6 - 32 N.C. X 1/2" GRADE 1
5		7184001253	1	BRACKET
6		7872000684	2	BREAKER, 10 AMP CIRCUIT
7		7872000685	3	BREAKER, 15 AMP CIRCUIT
8		7486001811	1	VOLTMETER
		7581000052	1	INCLUDES THE FOLLOWING PARTS BULB
9	#	7872000551	1	SWITCH, IGNITION
	#	9872100245	1	INCLUDES THE FOLLOWING PARTS KEY, SET
10	#	7872000602	1	SWITCH, PUSH BUTTON
11		7949000584	1	FLATWASHER, NYLON
12	#	7872000566	1	SWITCH, TOGGLE
13		7242000012	1	BUTTON, PLUG
14	#	7872000567	5	SWITCH, TOGGLE
15	#	7298001295	1	TIMER, DELAY (5 SECONDS)
16		7059000292	1	BAR, BUS
17	+	6512001983	1	HARNESS ASSEMBLY
18		7864000188	1	STUD, BATTERY FEEDER
19		7659000197	5	NUT, PANEL (24)
20		7557000031	2	RESISTOR
21		7949000350	5	LOCKWASHER (24)
22		7910011575	3	SPACER
23		7660101100	1	NUT, HEX 3/16" - 32 N.F. GRADE 1
24		7950080450	8	LOCKWASHER, 5/32" I.D.
25		4146200031	1	BRACKET, MOUNTING

+ SEE FURTHER BREAKDOWN THIS GROUP

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Crane Group

Description
LOWER CONTROL BOX ASSEMBLY (GAS)

Assembly No.
6176002865
Revision: #

Item	FN	Part	Qty	Description
26		7172000011	6	BOOT, TOGGLE SWITCH
27	#	7950180350	12	LOCKWASHER, 1/2" I.D.
28		7115144050	2	CAP SCREW 1/4" - 20 N.C. X 5" GRADE 5
29		7506000006	4	GROMMET
30		7086000934	1	BLOCK, TERMINAL
31	#	7486002606	1	HOURLMETER (SOLID STATE)
32		7950100161	4	FLATWASHER 3/16" I.D.
33		7111101211	1	SCREW, MACHINE 3/16" - 24 N.C. X 1 1/2" GRADE 1
34		7660141100	3	NUT, HEX 1/4" - 20 N.C.
35		7950140350	5	LOCKWASHER, 1/4" I.D.
36		7892000267	10	TERMINAL
37		7111060311	4	SCREW, MACHINE #6 - 32 N.C. X 3/8" GRADE 1
38		7950060050	6	LOCKWASHER, #6 I.D.
39		7850000208	12	TIE, CABLE (BLACK) 5 5/8" LONG
40	#	6356000179	4	DIODE
41		7115140850	1	CAP SCREW 1/4" - 20 N.C. X 1" GRADE 5
42		7345001444	2	TERMINAL, FEMALE
43		7950100350	1	LOCKWASHER, 3/16" I.D.
44	#	7242000005	1	BUTTON, PLUG
45		6637011005	5	MOULDING - USE 9794100030 QTY 1 STICKTITE 5 FEET
47	#	7750000071	1	RELAY
48	#	7172000025	1	BOOT, PUSH BUTTON SWITCH
49		7111080311	7	SCREW, MACHINE 5/32" - 32 N.C. X 3/8" GRADE 1

SERVICED AS AN ASSEMBLY ONLY

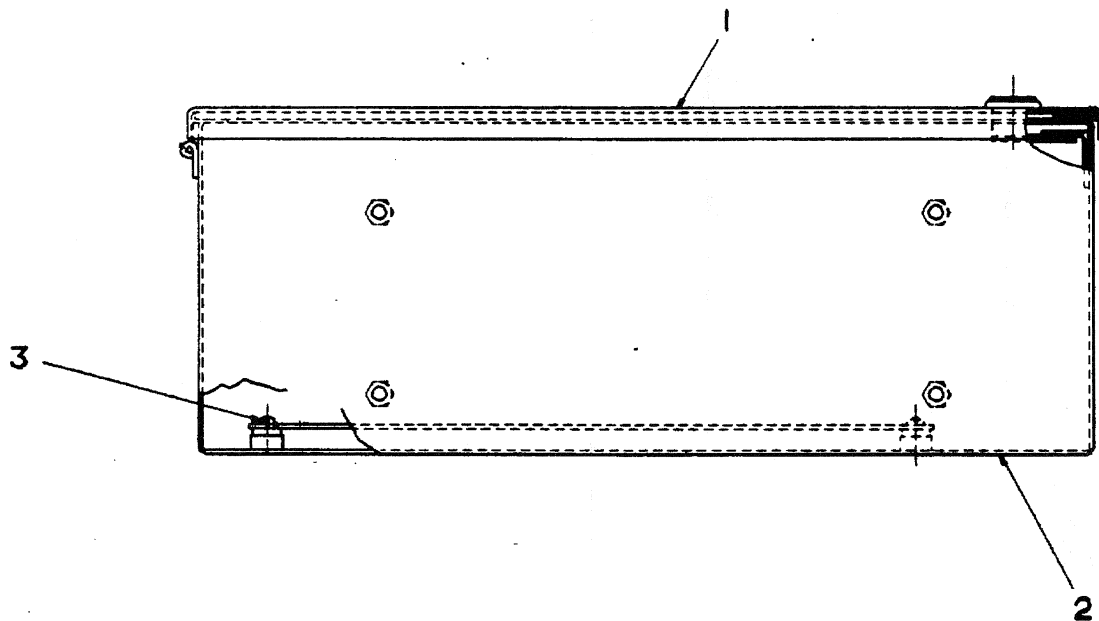
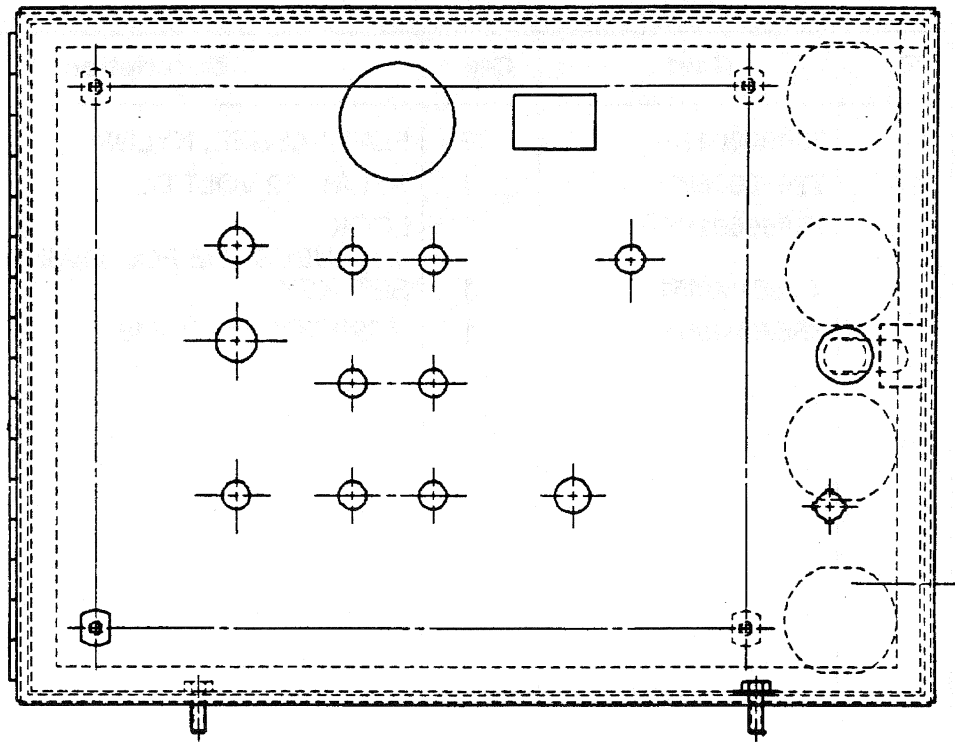
Manitowoc Crane Group

Description
LOWER CONTROL BOX ASSEMBLY (GAS)

Assembly No.
6176002865
 Revision: #

Item	FN	Part	Qty	Description
50	#	7949000410	6	FLATWASHER, NYLON
51		7750000697	1	RELAY, 12 VOLT DC
52		7585000155	1	LOCK
		9585100051	1	INCLUDES THE FOLLOWING PARTS SET, KEY
53		7557000054	1	RESISTOR, 20 OHMS

SERVICED AS AN ASSEMBLY ONLY



Manitowoc Crane Group

Description

CONTROL BOX ASSEMBLY - LOWER

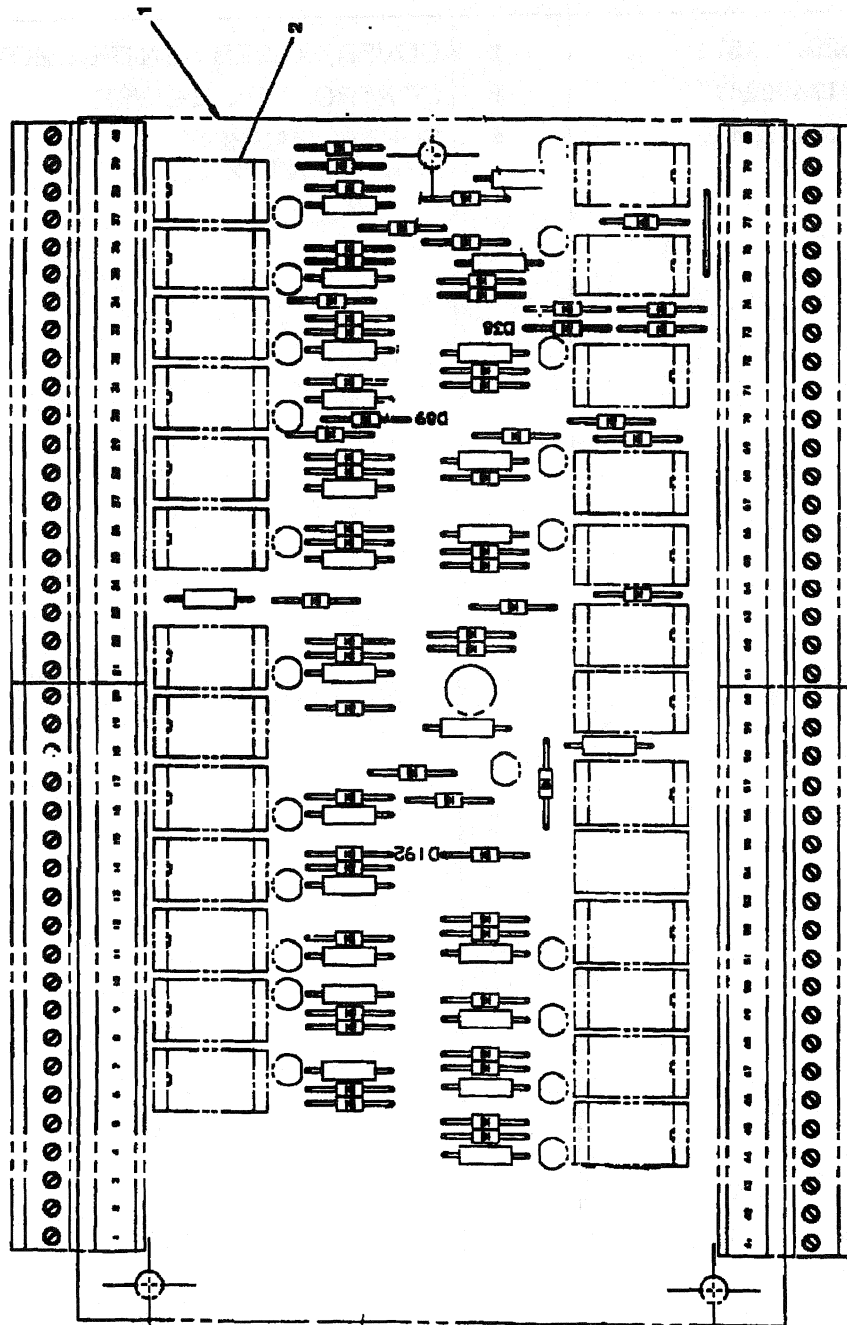
Assembly No.

6176002827

Revision: #

Item	FN	Part	Qty	Description
1	+	6258001571	1	COVER, LOWER CONTROL BOX
2		6176002411	1	CONTROL BOX - LOWER
3		7101100410	4	SCREW, MACHINE 3/16" - 32 N.F. X 1/2" GRADE 1

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Crane Group

Description

RELAY BOARD ASSEMBLY - MODIFIED

Assembly No.

6750000729

Revision: #

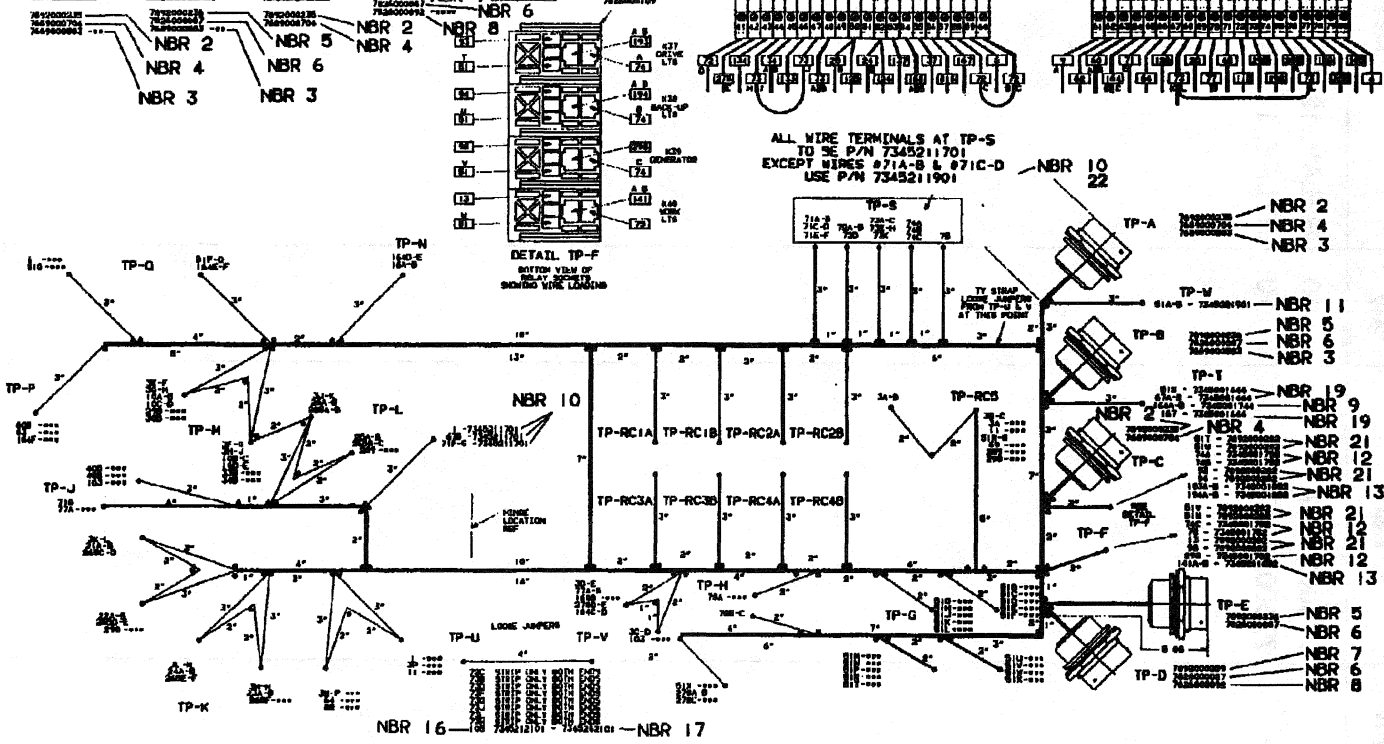
Item	FN	Part	Qty	Description
1	#	7750000697	10	RELAY, 12 VOLT DC
2	#	7750000695	10	RELAY, 12 VOLT DC

SERVICED AS AN ASSEMBLY ONLY

ALL WIRE TERMINALS TO BE
P/N 7345001744 ITEM #9 EXCEPT AT
DELTSCH CONNECTORS AND WHERE NOTED.
--- P/N 7345001444 ITEM #19

TP A		TP B		TP C		TP D		TP E	
BORN CABLE #1		BORN CABLE #2		VALVE HARMONICS		LIGHT SWITCHES		AND OPTIONS	
CONN	WIRE	CONN	WIRE	CONN	WIRE	CONN	WIRE	CONN	WIRE
A	71A	A	25A	A	25A	A	272K	A	272A
B	71B	B	25B	B	25B	B	273K	B	273A
C	71C	C	25C	C	25C	-----	-----	C	274K
D	71D	D	25D	D	25D	-----	-----	D	275K
E	71E	E	25E	E	25E	-----	-----	E	276K
F	71F	F	25F	F	25F	-----	-----	F	277K
G	71G	G	25G	G	25G	-----	-----	G	278K
H	71H	H	25H	H	25H	-----	-----	H	279K
I	71I	I	25I	I	25I	-----	-----	I	280K
J	71J	J	25J	J	25J	-----	-----	J	281K
K	71K	K	25K	K	25K	-----	-----	K	282K
L	71L	L	25L	L	25L	-----	-----	L	283K
M	71M	M	25M	M	25M	-----	-----	M	284K
N	71N	N	25N	N	25N	-----	-----	N	285K
O	71O	O	25O	O	25O	-----	-----	O	286K
P	71P	P	25P	P	25P	-----	-----	P	287K
Q	71Q	Q	25Q	Q	25Q	-----	-----	Q	288K
R	71R	R	25R	R	25R	-----	-----	R	289K
S	71S	S	25S	S	25S	-----	-----	S	290K
T	71T	T	25T	T	25T	-----	-----	T	291K
U	71U	U	25U	U	25U	-----	-----	U	292K
V	71V	V	25V	V	25V	-----	-----	V	293K
W	71W	W	25W	W	25W	-----	-----	W	294K
X	71X	X	25X	X	25X	-----	-----	X	295K
Y	71Y	Y	25Y	Y	25Y	-----	-----	Y	296K
Z	71Z	Z	25Z	Z	25Z	-----	-----	Z	297K

TP40000001-NBR 7



Manitowoc Crane Group

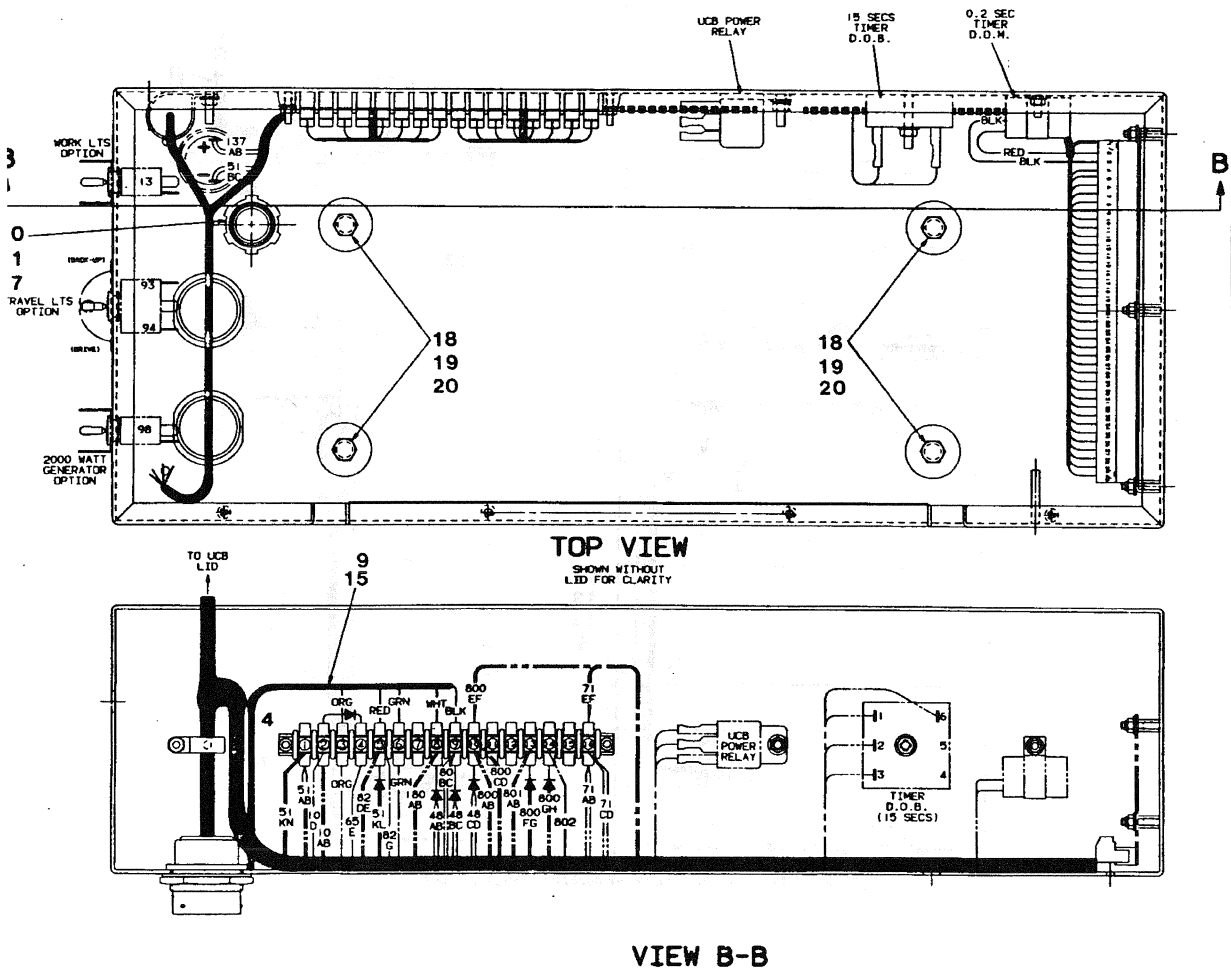
Description
HARNESS ASSEMBLY

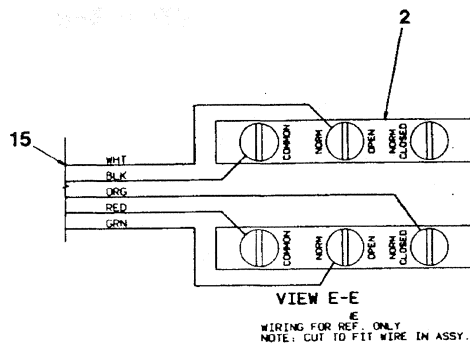
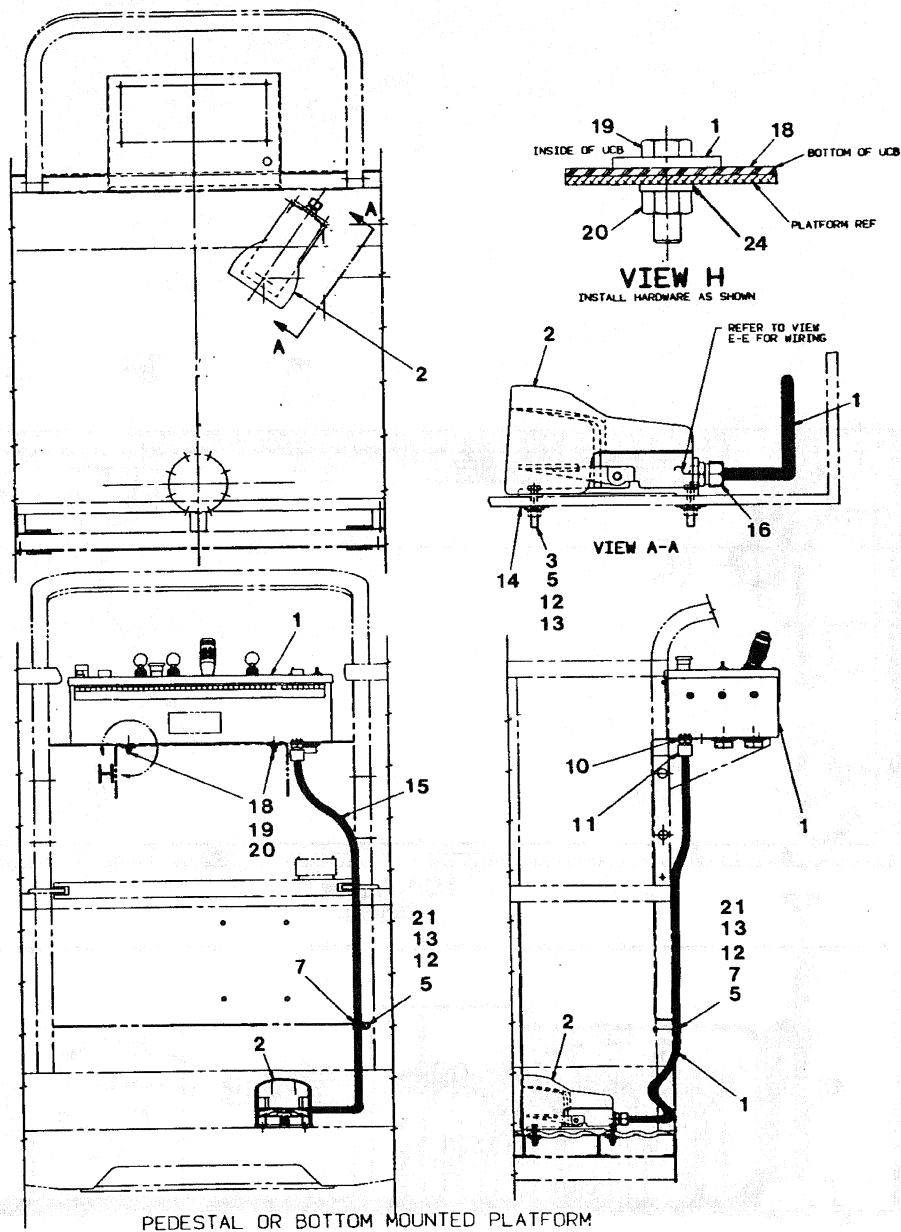
Assembly No.
6512001983
Revision: **E**

Item	FN	Part	Qty	Description
2		7892000235	2	RECEPTACLE, 23 PIN
3		7689000503	4	PLUG, SEALING 16 - 12 AWG
4		7689000704	44	PIN 14 - 16 AWG
5		7892000236	2	RECEPTACLE, 23 SOCKET
6		7826000087	61	SOCKET, 16-14 GA
7		7892000259	1	RECEPTACLE, 21 SOCKET
8		7826000092	4	SOCKET 12 AWG
9		7345001744	39	TERMINAL, FEMALE 16 - 14 AWG
9		7345001744	52	TERMINAL, FEMALE 16 - 14 AWG
10		7345211701	13	TONGUE, INSULATED RING
10		7345211701	11	TONGUE, INSULATED RING
11		7345221901	1	TERMINAL 12 - 10 AWG
12		7345001752	5	TERMINAL 16 - 14 AWG
13		7345001852	3	TERMINAL 14 - 12 AWG
16		7345212101	1	TERMINAL 6 AWG
17		7345242101	1	TERMINAL 6 AWG
19		7345001444	54	TERMINAL, FEMALE
19		7345001444	41	TERMINAL, FEMALE
20		7826000109	4	SOCKET, RELAY
21		7892000282	8	RECEPTACLE, WITH TANG 16 - 14 AWG
22		7345211901	2	TERMINAL 12 - 10 AWG

Manitowoc Crane Group

Notes





Manitowoc Crane Group

Description

CONTROL BOX AND FOOTSWITCH INSTALLATION - UPPER

Assembly No.

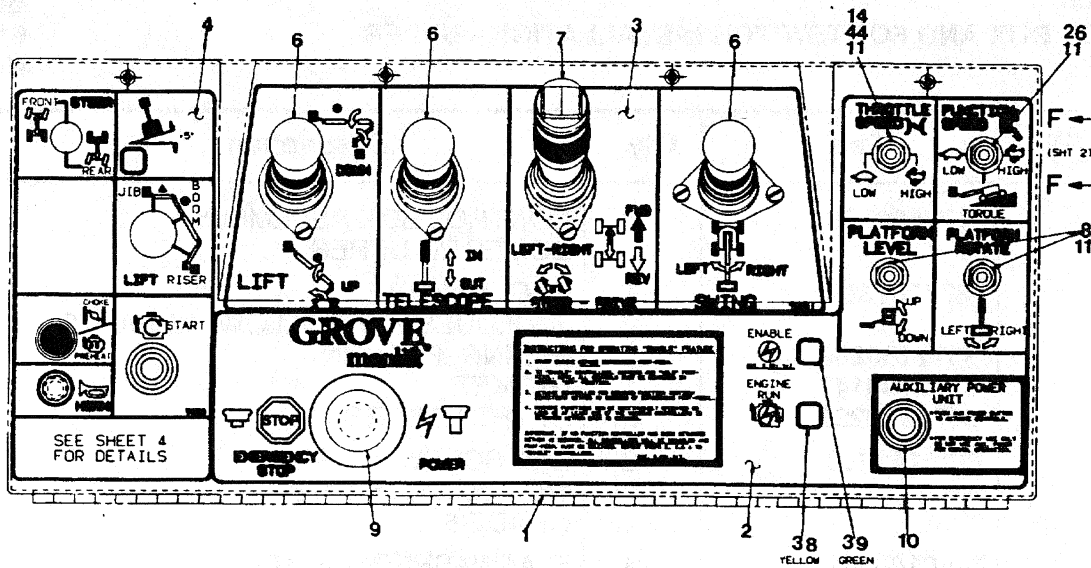
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Revision: **C**

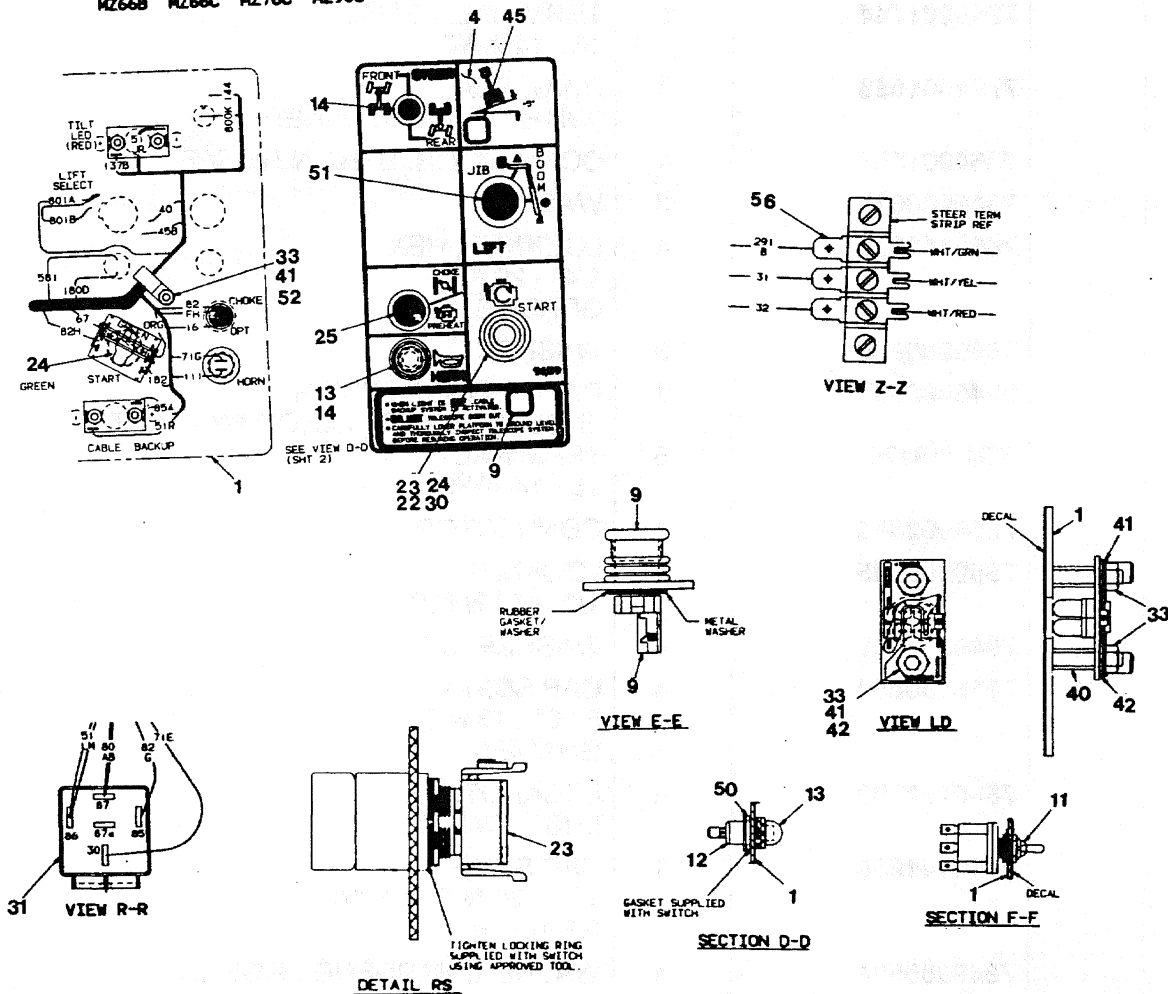
Item	FN	Part	Qty	Description
1	+	6176002788	1	CONTROL BOX ASSEMBLY - DOMESTIC UPPER
2		7872001398	1	FOOTSWITCH
		9872100208	1	INCLUDES THE FOLLOWING PARTS
		9872100143	1	SPRING, RETURN
		9872100233	1	GASKET
			2	SWITCH, MICRO
3		7115141250	3	CAP SCREW
				1/4" - 20 N.C. X 1 1/2"
				GRADE 5
5		7950140141	4	FLATWASHER, 1/4" I.D.
7		7300000101	1	CLAMP, TUBING
				1/2" I.D.
9		7345001744	5	TERMINAL, FEMALE
				16 - 14 AWG
10		7794001558	1	RING, SEAL
				(WITH STEEL RETAINER)
11		7364001531	1	CONNECTOR, STRAIN RELIEF
12		7949000615	3	WASHER
13		7660141601	4	LOCKNUT, HEX
				1/4" - 20 N.C.
				GRADE 5
14		7949000615	3	WASHER
15		6246002697	1	CABLE, FOOTSWITCH
				INCLUDES THE FOLLOWING PARTS
		7345191701	5	TERMINAL
				16 - 14 AWG
16		7364002396	1	CONNECTOR
17		7659000205	1	LOCKNUT
				1/2" - 14 N.P.S.
18		7949001135	4	WASHER, 5/16" I.D.
19		7115150850	4	CAP SCREW
				5/16" - 18 N.C. X 1"
				GRADE 5
20		7660151600	4	LOCKNUT, HEX
				5/16" - 18 N.C.
21		7115141850	1	CAP SCREW
				1/4" - 20 N.C. X 2 1/4"
				GRADE 5
24		7949000534	4	WASHER, HARDENED ROUND

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Crane Group



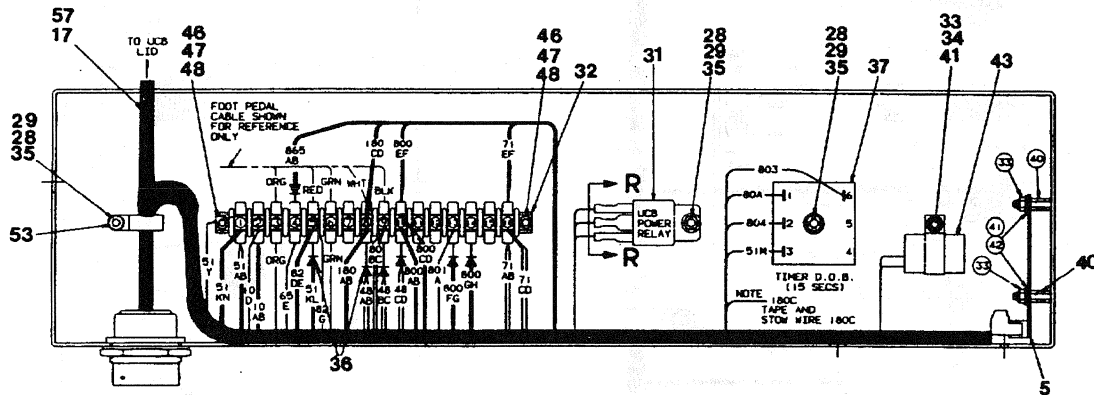
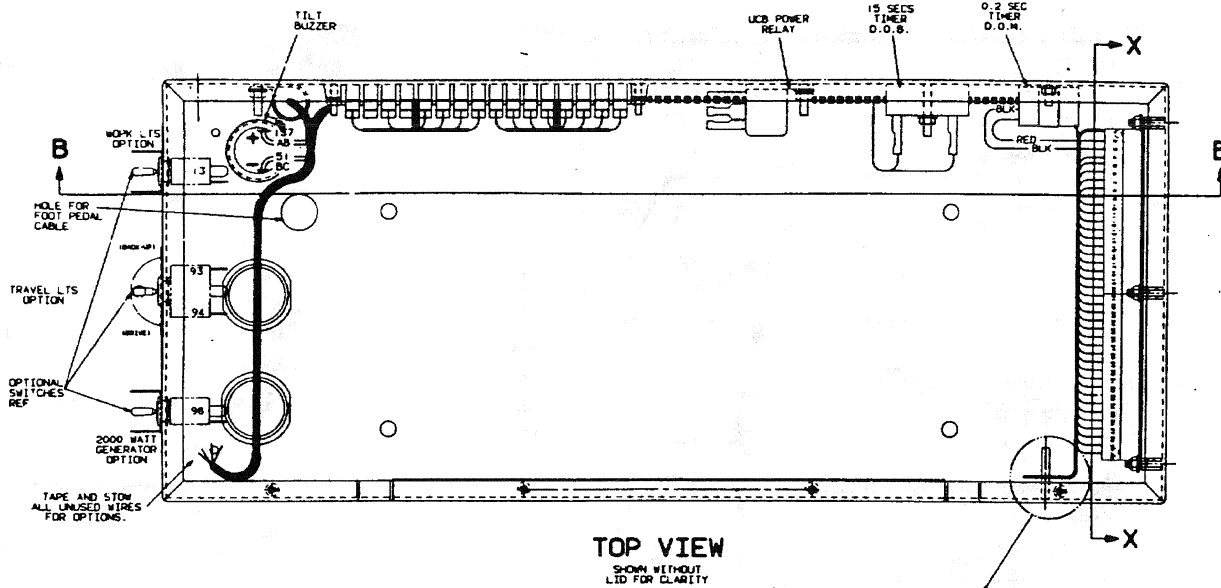
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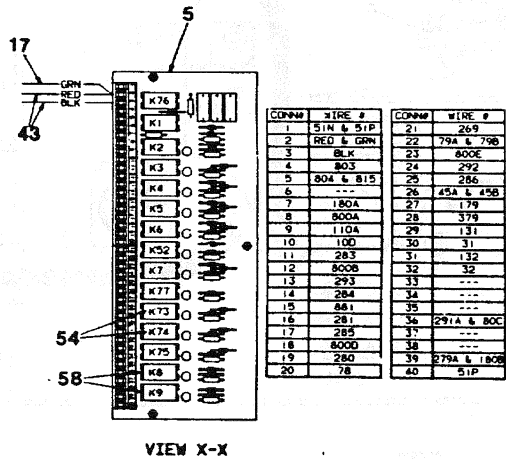
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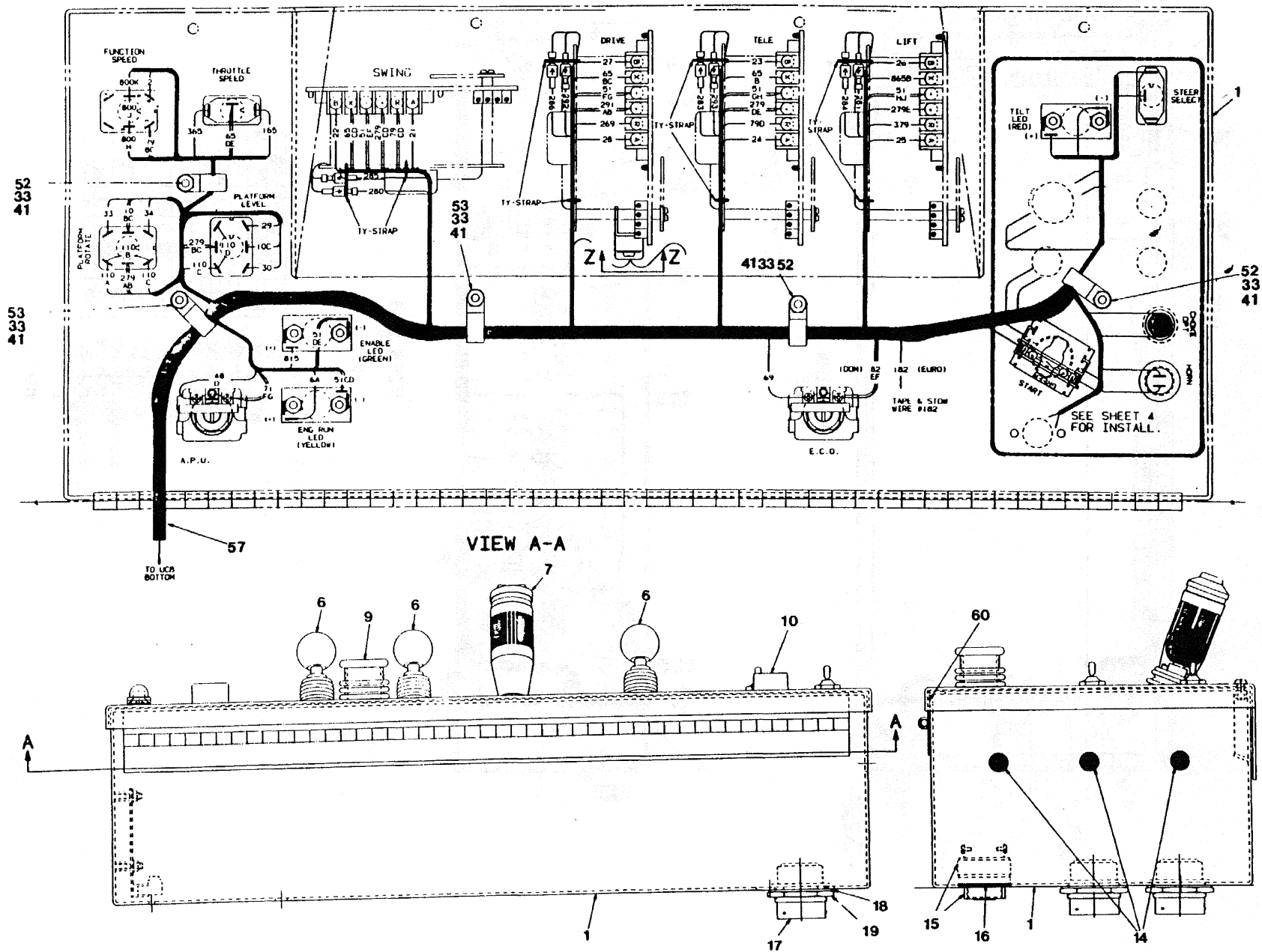
(SHEET 3 OF 3)

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Manitowoc Crane Group

VIEW B-B





Manitowoc Crane Group

Description
CONTROL BOX ASSEMBLY - DOMESTIC UPPER

Assembly No.
6176002788
Revision: B

Item	FN	Part	Qty	Description
1		7176002602	1	BOX, UPPER CONTROL
				INCLUDES THE FOLLOWING PARTS
		7110100611	1	SCREW, MACHINE
				#10-24 NC X 3/4"
		9794100012	1	MOULDING
				25' PC. (MUST CUT TO LENGTH NEEDED)
		9176100524	1	WASHER
2		7376009660	1	DECAL - UPPER CONTROL BOX
				PANEL
3		7376009655	1	DECAL - CONTROLLERS
4		7376009659	1	DECAL - UPPER CONTROL BOX
5		7750000713	1	BOARD, RELAY
				INCLUDES THE FOLLOWING PARTS
	#	7750000695	9	RELAY, 12 VOLT DC
	#	7750000697	1	RELAY, 12 VOLT DC
		9750100045	2	CONNECTOR, TERMINAL
6	+	7352000937	3	CONTROLLER ASSEMBLY
				(LIFT - UP/DOWN)
				(TELESCOPE - IN/OUT)
				(SWING - LEFT/RIGHT)
7	+	7352000936	1	CONTROLLER ASSEMBLY -
				THUMB
				(STEER - LEFT/RIGHT)
				(DRIVE - FORWARD/REVERSE)
8	#	7872000567	2	SWITCH, TOGGLE
9	#	7872001515	1	SWITCH, EMERGENCY STOP
				CONTROL
10		7872001329	1	SWITCH, PUSH BUTTON
				INCLUDES THE FOLLOWING PARTS
		9872100170	1	BUTTON
		9872100178	1	BLOCK & BASE
11		7172000011	4	BOOT, TOGGLE SWITCH
12	#	7872000602	1	SWITCH, PUSH BUTTON
				(HORN/CHOKE/START)
13	#	7172000025	1	BOOT, PUSH BUTTON SWITCH
14		7242000012	4	BUTTON, PLUG
15	#	7025000237	1	BUZZER, ALARM
16		7557000073	1	INSULATOR
17	+	6512002305	1	HARNESS ASSEMBLY - UPPER
				CONTROL BOX

SERVICED AS AN ASSEMBLY ONLY

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Crane Group

Description

CONTROL BOX ASSEMBLY - DOMESTIC UPPER

Assembly No.

6176002788

Revision: **B**

Item	FN	Part	Qty	Description
18		7949000350	2	LOCKWASHER
19		7659000197	2	NUT, PANEL
22		7872001496	1	SWITCH - PUSH BUTTON
23		7872001497	1	LATCH, 4 ACROSS
24		7872001498	1	BLOCK, CONTACT
25	#	7242000005	1	BUTTON, PLUG
26	#	7872000593	1	SWITCH, TOGGLE (CONTROL SPEED/DRIVE TORQUE - LOW/HIGH)
28		7660101100	3	NUT, HEX 3/16" - 32 N.F. GRADE 1
29		7950100161	3	FLATWASHER 3/16" I.D.
30		7172000544	1	BOOT, BLACK
31	#	7750000071	1	RELAY
32		7086001078	1	BLOCK, TERMINAL 16 POLE
33		7660081100	18	NUT, HEX 5/32" - 24 N.F. GRADE 1
34		7950080141	1	FLATWASHER, 5/32" I.D.
35		7950100350	3	LOCKWASHER, 3/16" I.D.
36	#	6356000179	7	DIODE
37	#	7298001300	1	TIMER
38	#	7581001123	1	DIODE, LIGHT EMITTING CLUSTER YELLOW (12VDC)
39	#	7581001124	2	DIODE, LIGHT EMITTING CLUSTER GREEN (12VDC)
40		7910011575	11	SPACER
41		7950080350	18	LOCKWASHER, 5/32" I.D.
42		7949000410	11	FLATWASHER, NYLON
43		7298001290	1	TIMER, DELAY
44	#	7872000568	1	SWITCH, TOGGLE (ENGINE SPEED - THROTTLE HIGH/LOW)
45	#	7581001122	1	DIODE, LIGHT EMITTING CLUSTER RED (12VDC) (RED)

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Crane Group

Description

CONTROL BOX ASSEMBLY - DOMESTIC UPPER

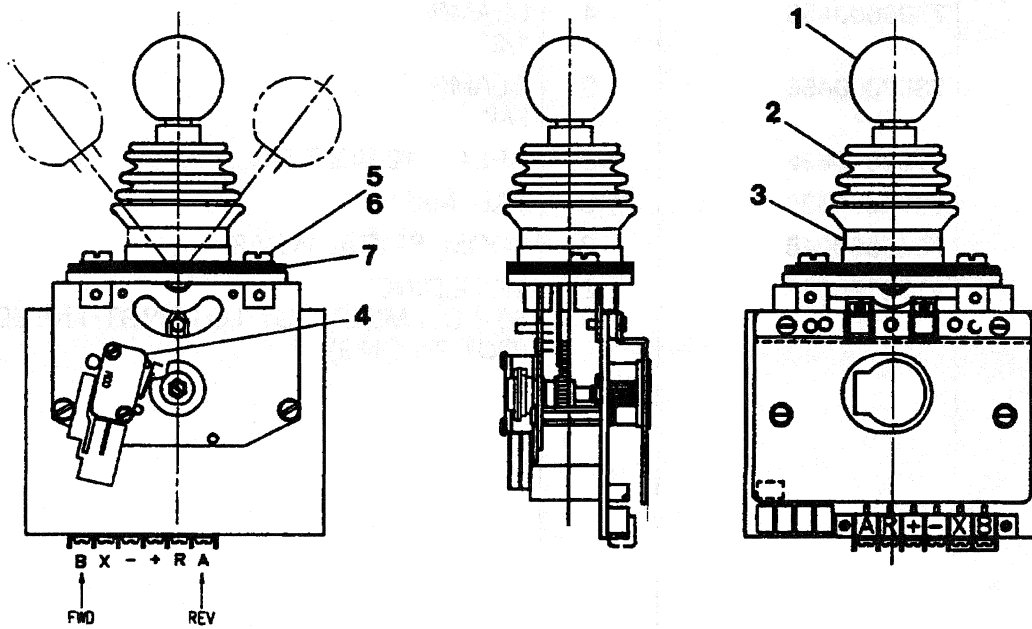
Assembly No.

6176002788

Revision: **B**

Item	FN	Part	Qty	Description
46		7660061100	2	NUT, HEX #6 - 32 N.C. GRADE 1
47		7950060141	2	WASHER, #6 I.D.
48		7950060050	2	LOCKWASHER, #6 I.D.
50		7949000584	1	FLATWASHER, NYLON
51		7709000021	1	PLUG, DOT 7/8"
52		7300000455	4	CLAMP 1/2"
53		7300000456	3	CLAMP 3/4"
54	#	7750000695	2	RELAY, 12 VOLT DC
56		7364001326	3	TAB, MALE
57		7557000046	2	LOOM, SPIRAL WRAP
60		9794100014	2	MOULDING 50' PC (MUST CUT TO LENGTH NEEDED) (CUT 2' LONG)

SERVICED AS AN ASSEMBLY ONLY



Manitowoc Crane Group

Description

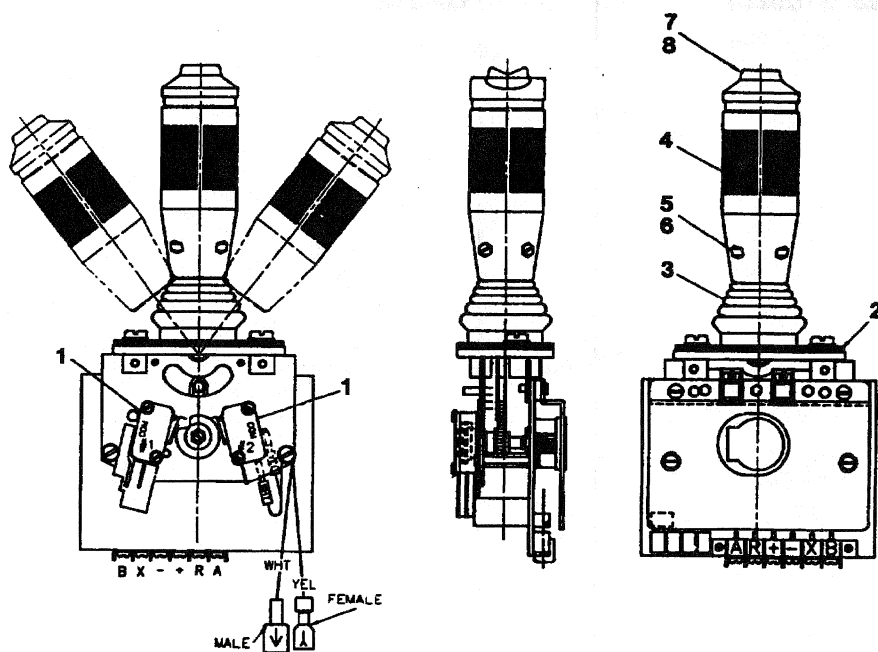
CONTROLLER ASSEMBLY

Assembly No.

7352000937

Revision:

Item	FN	Part	Qty	Description
1		9352100383	1	HANDLE, ROUND BALL
2		9667100074	1	BOOT
3		9667100077	1	CLAMP, BOOT
4		9352100371	1	SWITCH, MICRO
5		9352100421	2	SCREW 5MM N.C. X 12MM
6		9352100246	2	WASHER
7		9352100257	1	GASKET



Manitowoc Crane Group

Description

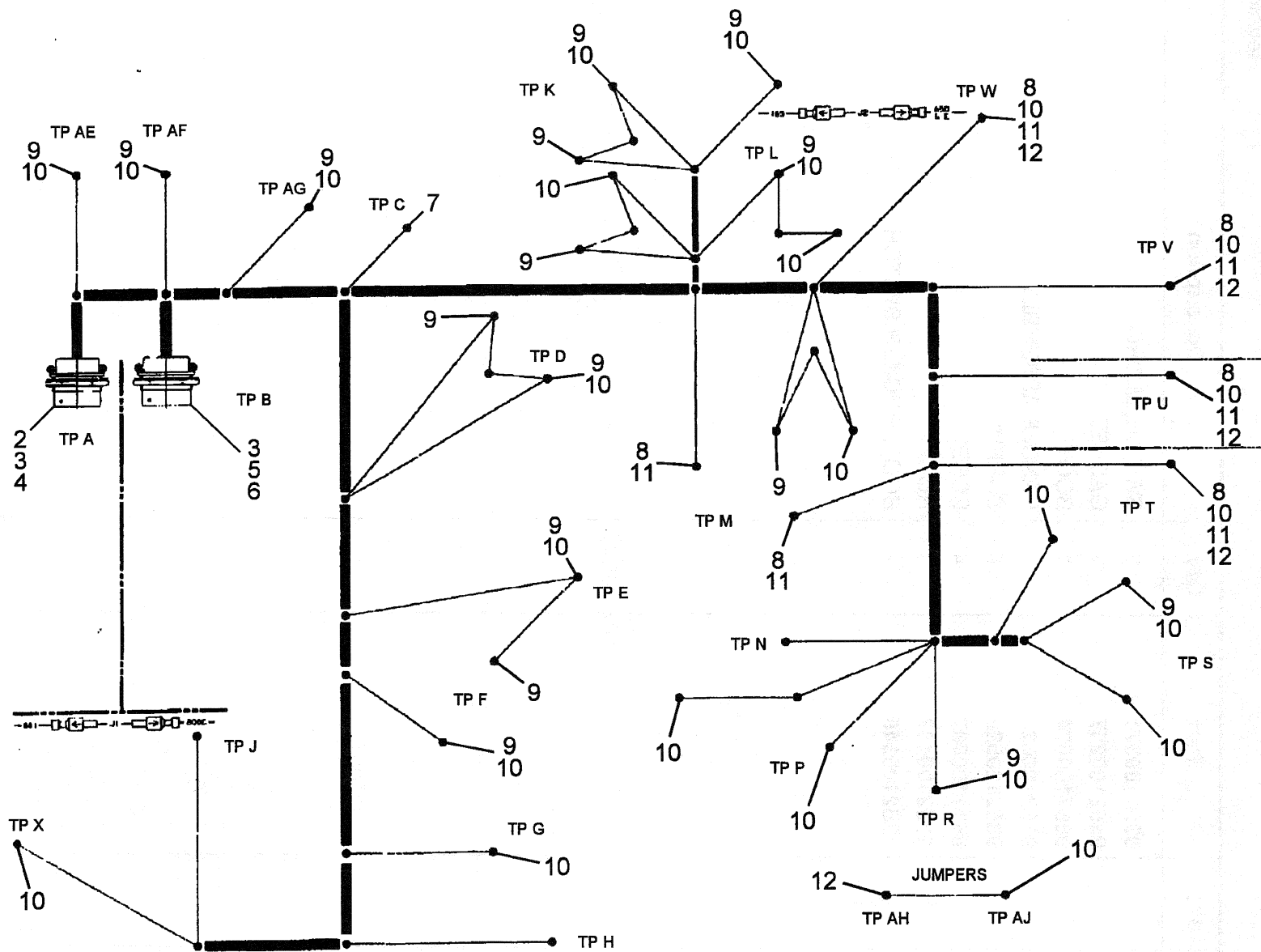
CONTROLLER ASSEMBLY - THUMB

Assembly No.

7352000936

Revision:

Item	FN	Part	Qty	Description
1		9352100371	2	SWITCH, MICRO
2		9352100257	1	GASKET
3		9667100074	1	BOOT
4		9352100621	1	HANDLE ASSEMBLY
5		9352100529	4	SCREW
6		9511100007	4	SCREW
7		9352100487	1	ROCKER
8		9352100545	1	BOOT, ROCKER SWITCH



Manitowoc Crane Group

Description

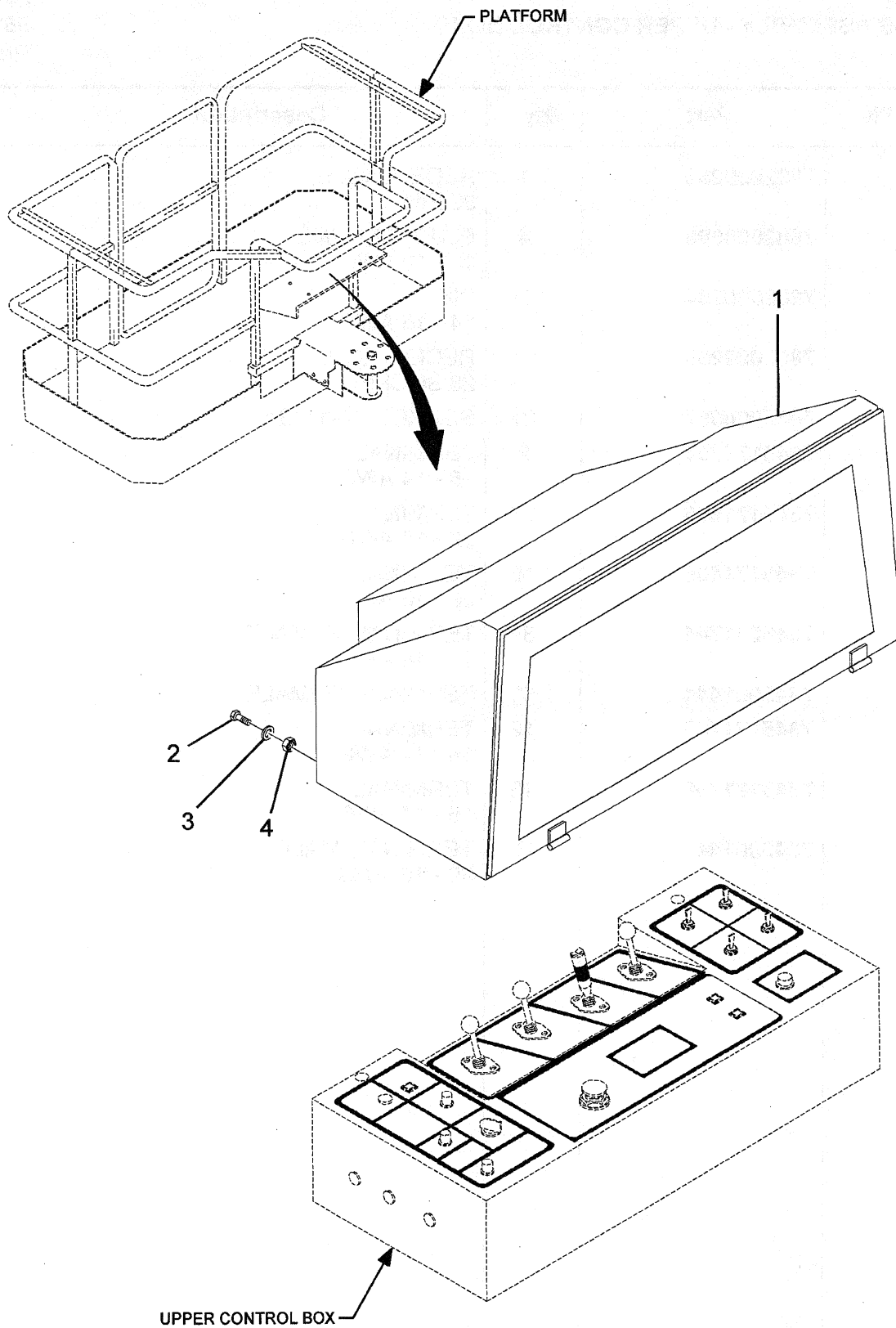
HARNESS ASSEMBLY - UPPER CONTROL BOX

Assembly No.

6512002305

Revision: **A**

Item	FN	Part	Qty	Description
2		7892000235	1	RECEPTACLE, 23 PIN
3		7689000503	4	PLUG, SEALING 16 - 12 AWG
4		7689000704	21	PIN 14 - 16 AWG
5		7892000236	1	RECEPTACLE, 23 SOCKET
6		7826000087	21	SOCKET, 16-14 GA
7		7345171701	2	TERMINAL 16 - 14 AWG
8		7345171406	17	TERMINAL 22 - 18 AWG
8		7345171406	16	TERMINAL 22 - 18 AWG
9		7345001744	39	TERMINAL, FEMALE 16 - 14 AWG
10		7345001444	51	TERMINAL, FEMALE
11		7345171706	12	TERMINAL 16 - 14 AWG
11		7345171706	13	TERMINAL 16 - 14 AWG
12		7345001446	8	TERMINAL, MALE 22 - 18 AWG



Manitowoc Crane Group

Description

COVER INSTALLATION - UPPER CONTROL BOX

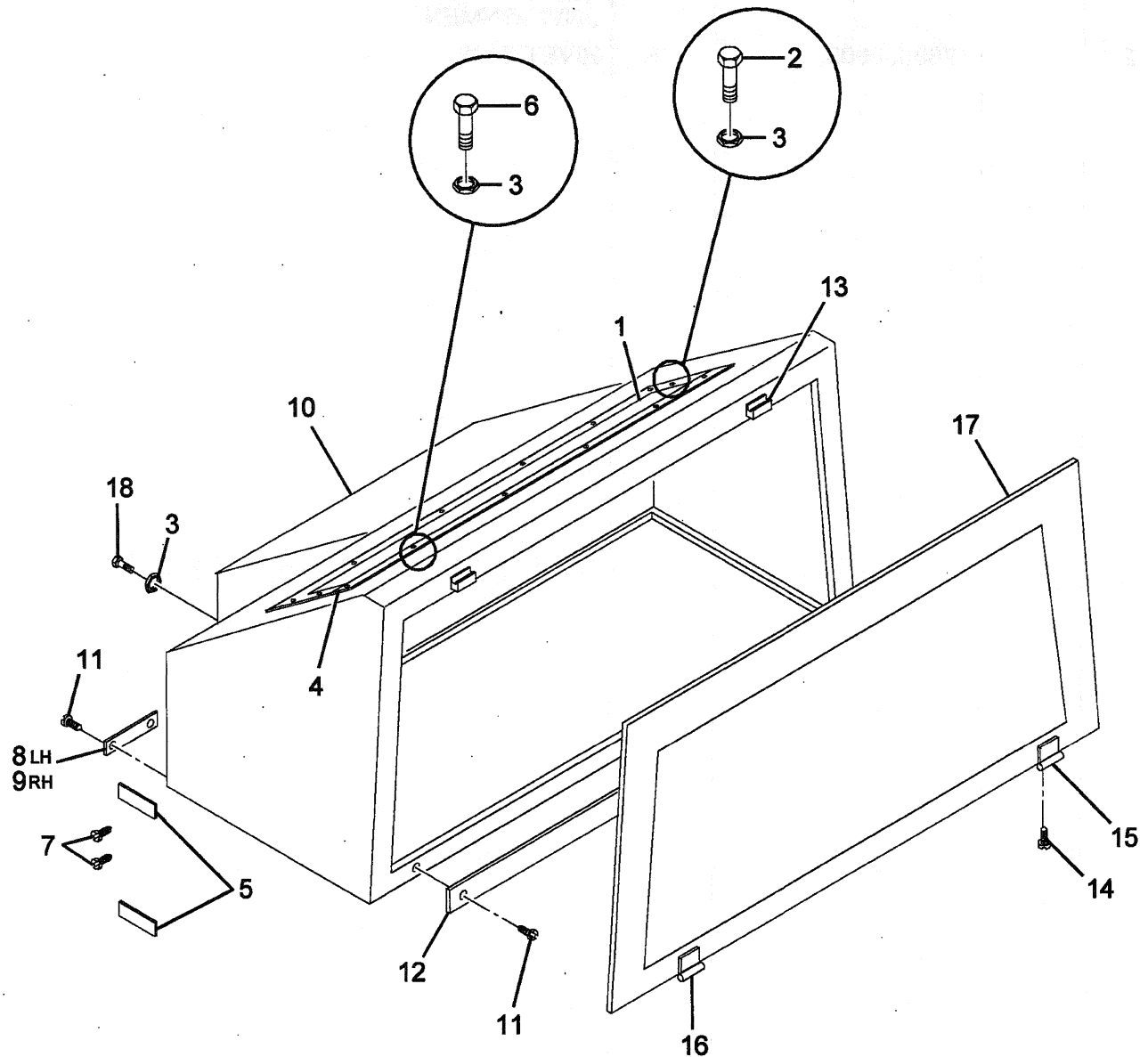
Assembly No.

2145300801

Revision: **A**

Item	FN	Part	Qty	Description
1	+	7258001641	1	COVER ASSEMBLY - HOSTILE ENVIRONMENT
2		7760000003	8	RIVET, POP

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Crane Group

Description

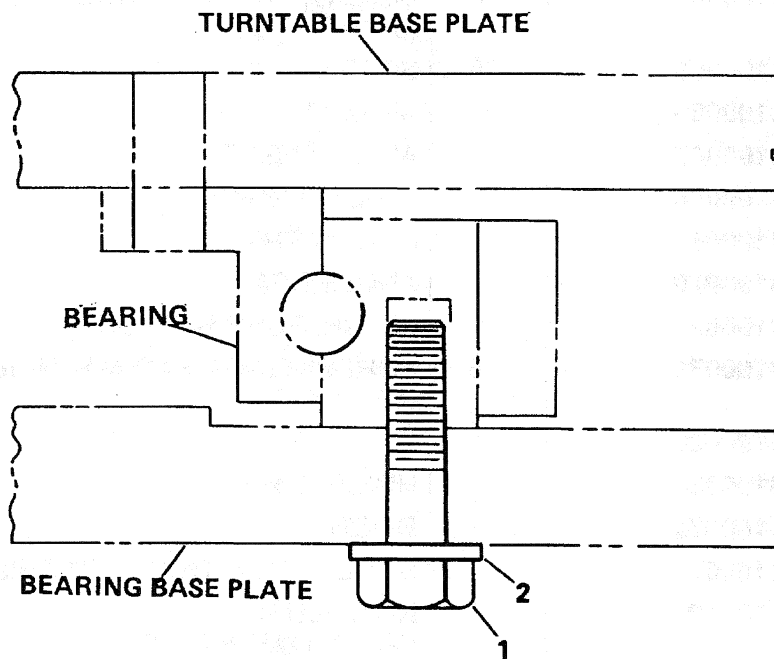
COVER ASSEMBLY - HOSTILE ENVIRONMENT

Assembly No.

7258001641

Revision:

Item	FN	Part	Qty	Description
1		9258100060	1	WINDOW
2		9258100061	8	SCREW, PAN HEAD MACHINE
3		9258100062	17	LOCKNUT
4		9258100063	1	ANGLE,TOP
5		7539000641	4	LATCH, SOFT
		9539102559	1	INCLUDES THE FOLLOWING PARTS KEEPER
6		9258100064	6	SCREW, PAN HEAD MACHINE (8-32 X .75")
7		9258100065	8	SCREW
8		9258100066	1	ANGLE,LEFT
9		9258100067	1	ANGLE,RIGHT
10		9258100068	1	LIP-EXTENSION
11		9258100069	7	SCREW,TRUSS
12		9258100070	1	ANGLE,REAR
13		9258100025	2	LATCH, PUSH BUTTON
14		9258100071	8	SCREW, FLAT HEAD MACHINE (10-24 X .5")
15		9258100033	1	HINGE (R.H.)
16		9258100034	1	HINGE (L.H.)
17		9258100072	1	DOOR
18		9258100073	3	SCREW, 7/16" TRUSS HD PHILLIPS
19		9258100104	0	NUT, FLUSH (NOT ILLUSTRATED)



Manitowoc Crane Group

Description

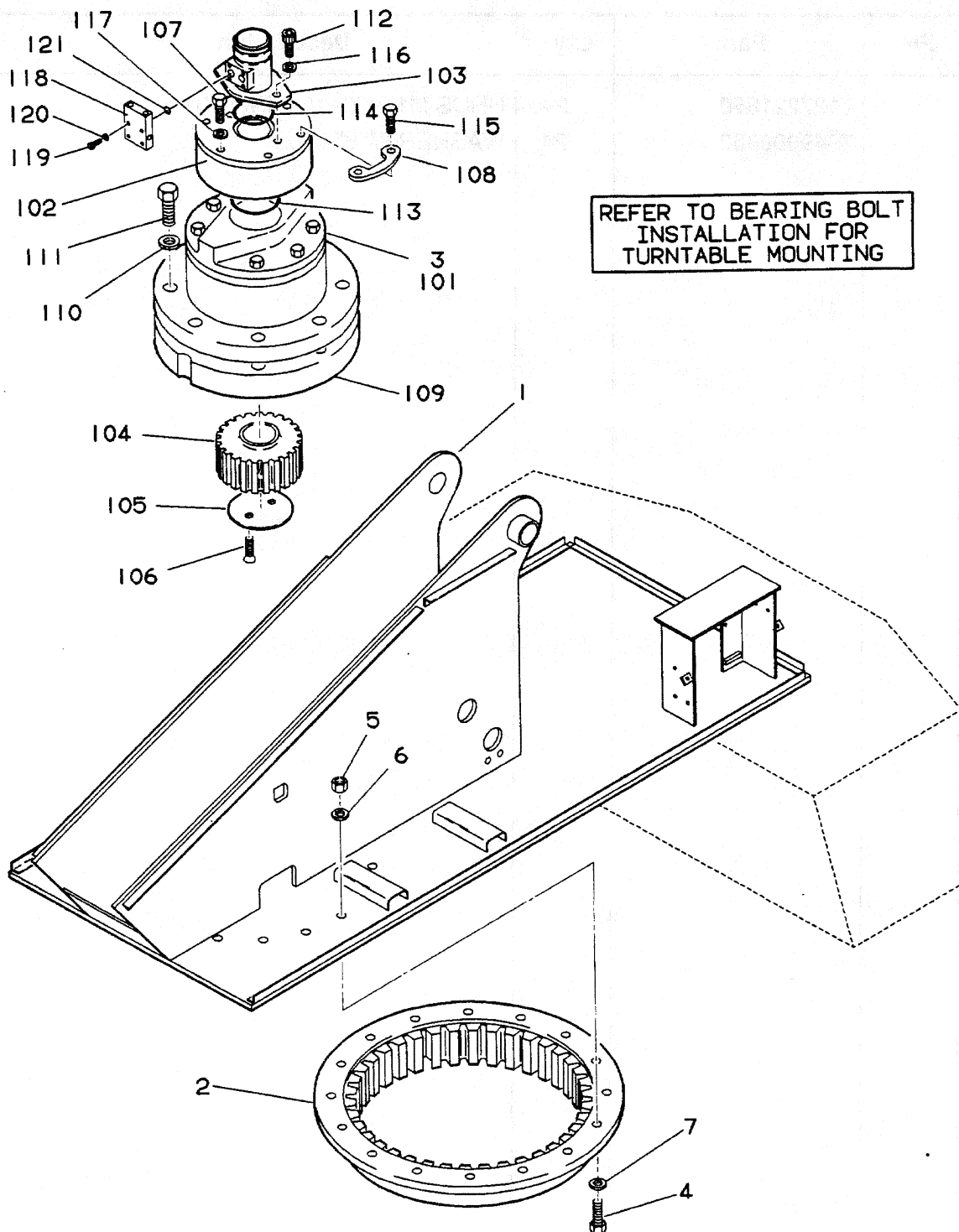
BEARING BOLT INSTALLATION

Assembly No.

6099000450

Revision: #

Item	FN	Part	Qty	Description
1		7127221850	24	HHCS M14x55 -10.9 ISO 4014
2		7949000362	24	WASHER 9/16" I.D.



Manitowoc Crane Group

Description

TURNTABLE DRIVE INSTALLATION

Assembly No.

2145200676

Revision: **A**

Item	FN	Part	Qty	Description
1		2145200677	1	TURNTABLE
2		7069000369	1	BEARING
3		2145200028	1	SWING DRIVE ASSEMBLY
4		7118202450	13	CAPSCREW 5/8" - 11 NC X 3" GRADE 8
5		7660200008	13	NUT, HEX 5/8" - 11 N.C. GRADE 8
6		7949000259	13	WASHER, 5/8" I.D.
7		6949000369	13	WASHER
101	+	7734000113	1	PLANETARY GEAR REDUCER ASSEMBLY
102	+	6188000107	1	BRAKE ASSEMBLY
103	+	7632000082	1	MOTOR ASSEMBLY - ORBIT
104		6490000083	1	PINION
105		6258000376	1	CAP, END
106		7111160607	2	SCREW, MACHINE 3/8" - 16 N.C. X 3/4" GRADE 1
107		7115183050	2	CAP SCREW 1/2" - 13 N.C. X 3 3/4" GRADE 5
108		6705006610	2	STOP
109		4154200001	1	SPACER
110		7949000362	9	WASHER 9/16" I.D.
111		7115191850	9	CAP SCREW 9/16" - 12 N.C. X 2 1/4" GRADE 5
112		7110181005	2	CAP SCREW 1/2" - 13 N.C. X 1 1/4" GRADE 1
113		7755045000	1	O-RING
114		7755152000	1	O-RING
115		7115162450	4	CAP SCREW 3/8" - 16 N.C. X 3" GRADE 5
116		7950180050	2	LOCKWASHER, 1/2" I.D.
117		7949000235	2	WASHER, 1/2" I.D.

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Crane Group

Description

TURNTABLE DRIVE INSTALLATION

Assembly No.

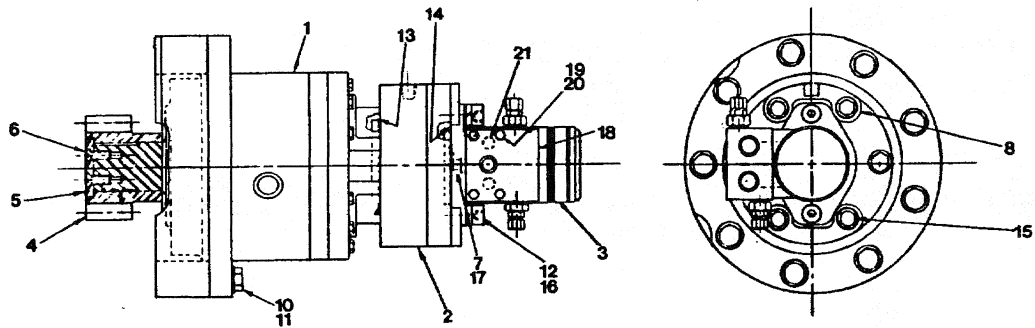
2145200676

Revision: A

Item	FN	Part	Qty	Description
118	+	7926001339	1	VALVE ASSEMBLY
119		7112152050	4	5/16" - 18 N.C. X 2 1/2"
120		7950150050	4	LOCKWASHER, 5/16" I.D.
121		7755112000	2	O-RING

+ SEE FURTHER BREAKDOWN THIS GROUP

Notes



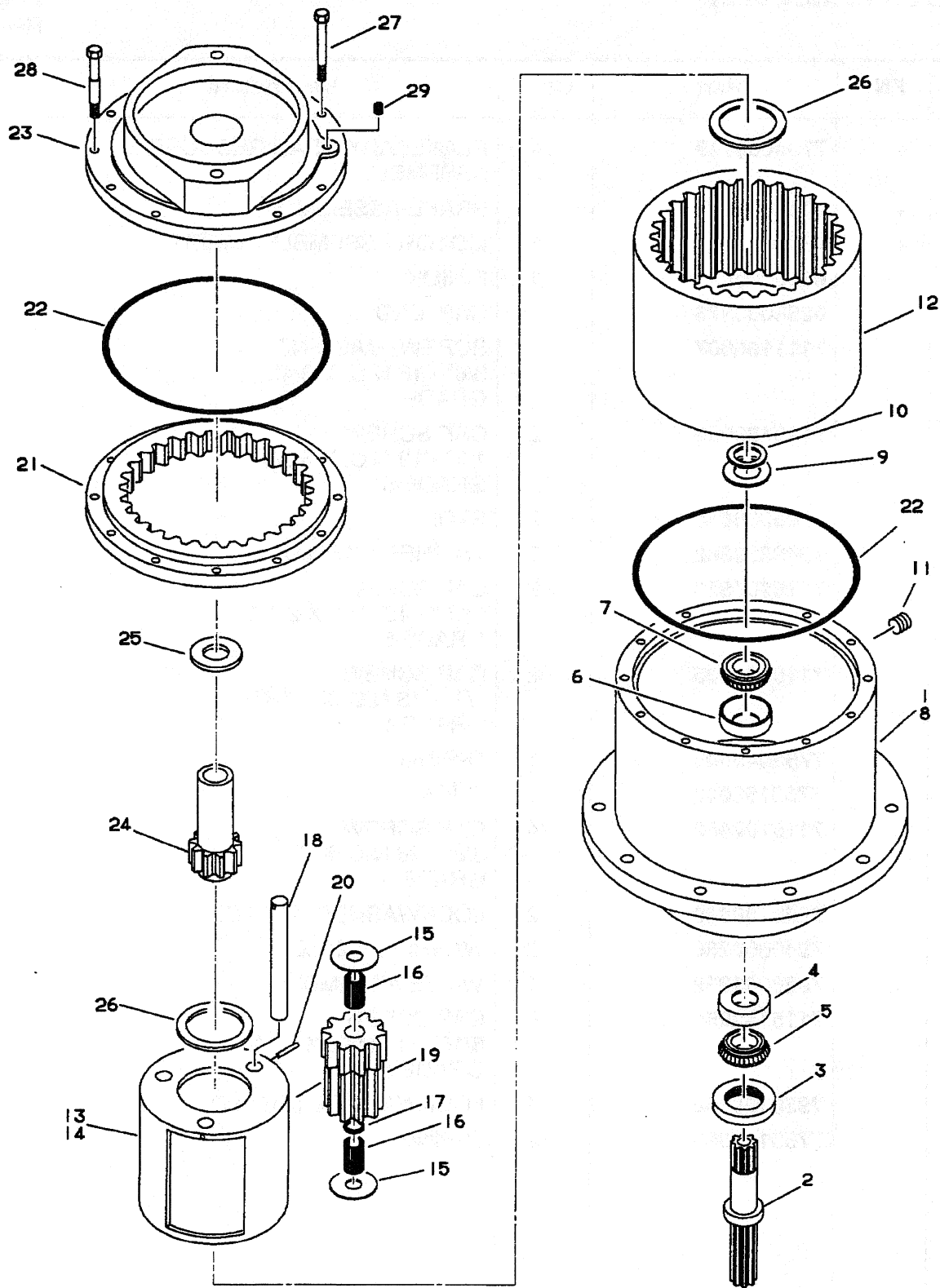
Manitowoc Crane Group

Description
SWING DRIVE ASSEMBLY

Assembly No.
2145200028
Revision: **A**

Item	FN	Part	Qty	Description
1	+	7734000113	1	PLANETARY GEAR REDUCER ASSEMBLY
2	+	6188000107	1	BRAKE ASSEMBLY
3	+	7632000082	1	MOTOR ASSEMBLY - ORBIT
4		6490000083	1	PINION
5		6258000376	1	CAP, END
6		7111160607	2	SCREW, MACHINE 3/8" - 16 N.C. X 3/4" GRADE 1
7		7115183050	2	CAP SCREW 1/2" - 13 N.C. X 3 3/4" GRADE 5
8		6705006610	2	STOP
10		7949000362	9	WASHER 9/16" I.D.
11		7115191850	9	CAP SCREW 9/16" - 12 N.C. X 2 1/4" GRADE 5
12		7110181005	2	CAP SCREW 1/2" - 13 N.C. X 1 1/4" GRADE 1
13		7755045000	1	O-RING
14		7755152000	1	O-RING
15		7115162450	4	CAP SCREW 3/8" - 16 N.C. X 3" GRADE 5
16		7950180080	2	LOCKWASHER, 1/2" I.D.
17		7949000235	2	WASHER, 1/2" I.D.
18	+	7926001339	1	VALVE ASSEMBLY
19		7115152050	4	CAP SCREW 5/16" - 18 N.C. X 2 1/2" GRADE 5
20		7950150050	4	LOCKWASHER, 5/16" I.D.
21		7755112000	2	O-RING

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Crane Group

Description

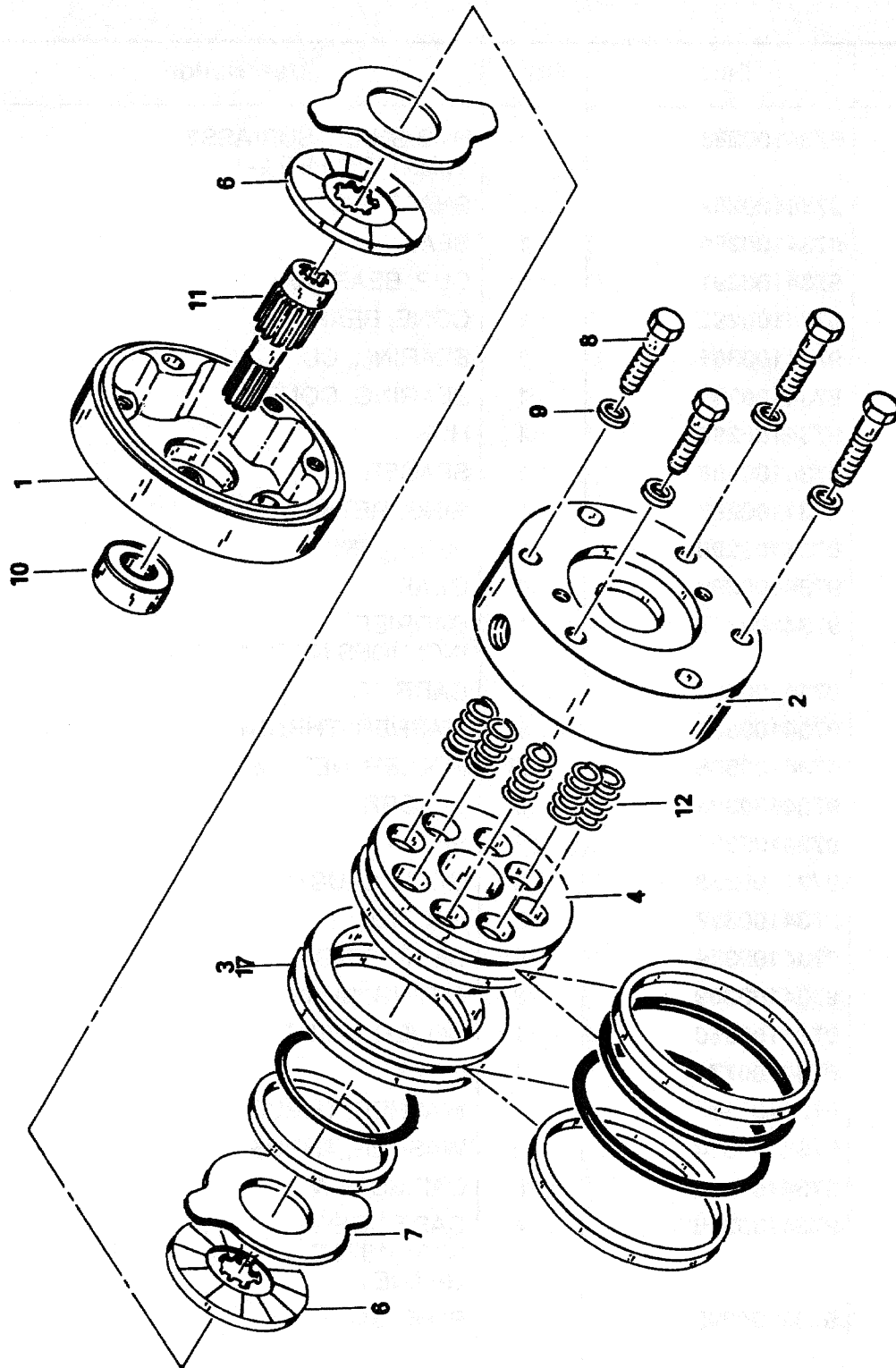
PLANETARY GEAR REDUCER ASSEMBLY

Assembly No.

7734000113

Revision:

Item	FN	Part	Qty	Description
1		9734100288	1	HUB-SHAFT SUB-ASSY INCLUDES NBR 2-11
2		9734100289	1	SHAFT
3		9734100290	1	SEAL
4		9734100291	1	CUP, BEARING
5		9734100292	1	CONE, BEARING
6		9734100386	1	BEARING, CUP
7		9734100385	1	BEARING, CONE
8		9734100295	1	HUB
9		9734100700	1	SPACER
10		9734100297	1	RING, RETAINING
11		9734100298	2	PLUG, PIPE
12		9734100299	1	GEAR
13		9734100357	1	CARRIER INCLUDES NBRS 14 - 20
14		9734100301	1	CARRIER
15		9734100537	6	WASHER, THRUST
16		9734100538	96	ROLLER, NEEDLE
17		9734100304	3	SPACER
18		9734100305	3	SHAFT
19		9734100358	3	GEAR, CLUSTER
20		9734100307	3	PIN, ROLL
21		9734100359	1	GEAR, RING
22		9734100309	2	O-RING, SEAL
23		9734100360	1	COVER, INPUT
24		9734100774	1	GEAR
25		9734100364	1	WASHER, THRUST
26		9734100314	2	WASHER, THRUST
27		9734100315	8	CAP SCREW
28		9734100316	4	CAP SCREW 5/16" -18 N.C. X 1 7/8" GRADE 8
29		9734100298	1	PLUG, PIPE



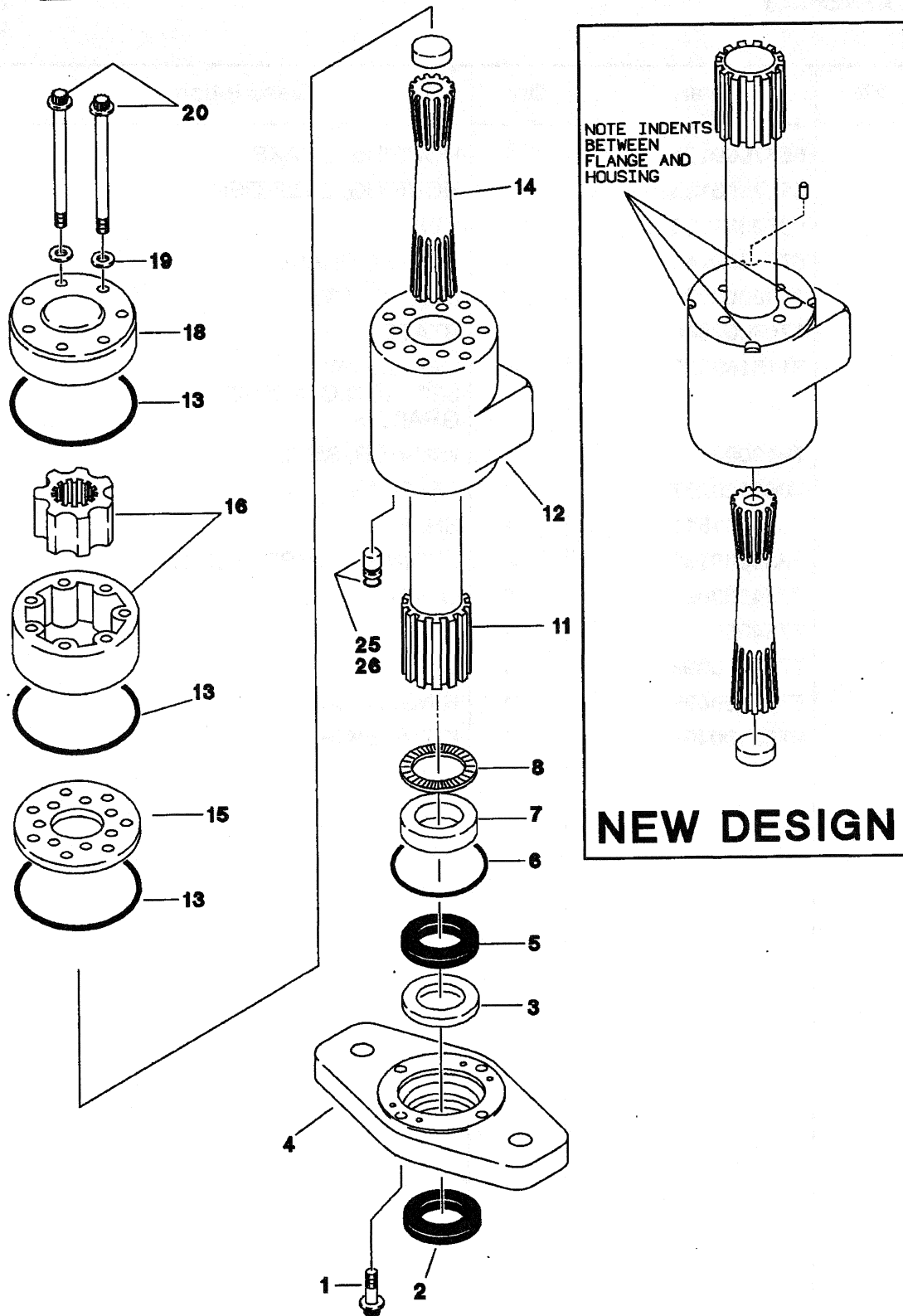
Manitowoc Crane Group

Description
BRAKE ASSEMBLY

Assembly No.
6188000107
Revision: **F**

Item	FN	Part	Qty	Description
1		6547000134	1	HOUSING, BRAKE
2		6547000133	1	HOUSING, CYLINDER
3		6372001332	1	HEAD
4		6701000144	1	PISTON, BRAKE
6		7188000095	2	DISC, BRAKE
7		6705007946	1	STATOR
8		7115162050	4	CAP SCREW 3/8" - 16 N.C. X 2 1/2" GRADE 5
9		7949000377	4	WASHER, 3/8" I.D.
10		7069000277	1	BEARING
11		6810001611	1	SHAFT
12		7834000138	8	SPRING, COMPRESSION
13	*	7754000097	2	O-RING
14	*	7754000100	2	RING, BACK-UP
15	*	7754000096	1	O-RING
16	*	7754000099	1	RING, BACK-UP
17	*	9752100402	1	KIT, REPAIR

* REPAIR KIT AND/OR PART OF KIT



Manitowoc Crane Group

Description

MOTOR ASSEMBLY - ORBIT

Assembly No.

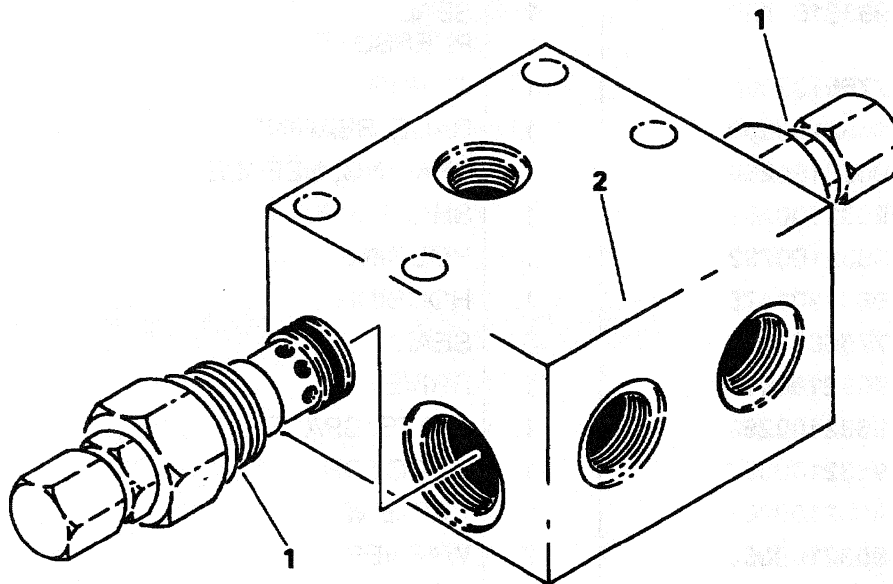
7632000082

Revision:

Item	FN	Part	Qty	Description
1		9632100046	4	CAP SCREW 5/16" -24 N.F. X 7/8"
2	*	9632100256	1	SEAL, DUST
2	%*	9632101238	1	SEAL, DUST
3	%	9632101460	1	RING, BACK-UP
4		9632100257	1	FLANGE
4	%	9632101458	1	FLANGE, MOUNTING
5	*	9632100258	1	SEAL
5	%*	9632101459	1	SEAL, PRESSURE
6	*	7755132000	1	O-RING
7		9632100259	1	RACE, BEARING
8		9632100260	1	BEARING, NEEDLE
11		9632100261	1	SHAFT, SPLINE
12		9632100732	1	HOUSING
12	%	9632101475	1	HOUSING
13	*	7755040000	3	SEAL
14		9632100015	1	DRIVE
15		9632100263	1	PLATE, SPACER
16		9632100357	1	GEROTOR
18		9632100266	1	CAP, END
19	*	9632100052	7	WASHER
19	%*	9632101466	7	SEAL, WASHER
20		9632100358	7	CAP SCREW
25	*	7755012000	1	O-RING
25	%	9632101462	1	O-RING
26		9632100011	1	PLUG
26		9632101463	1	PLUG
27	*	9632100267	1	REPAIR KIT - ORBIT MOTOR
27	%*	9632101468	1	KIT, SEAL

* REPAIR KIT AND/OR PART OF KIT

% SEE NOTE AT END OF LIST



Manitowoc Crane Group

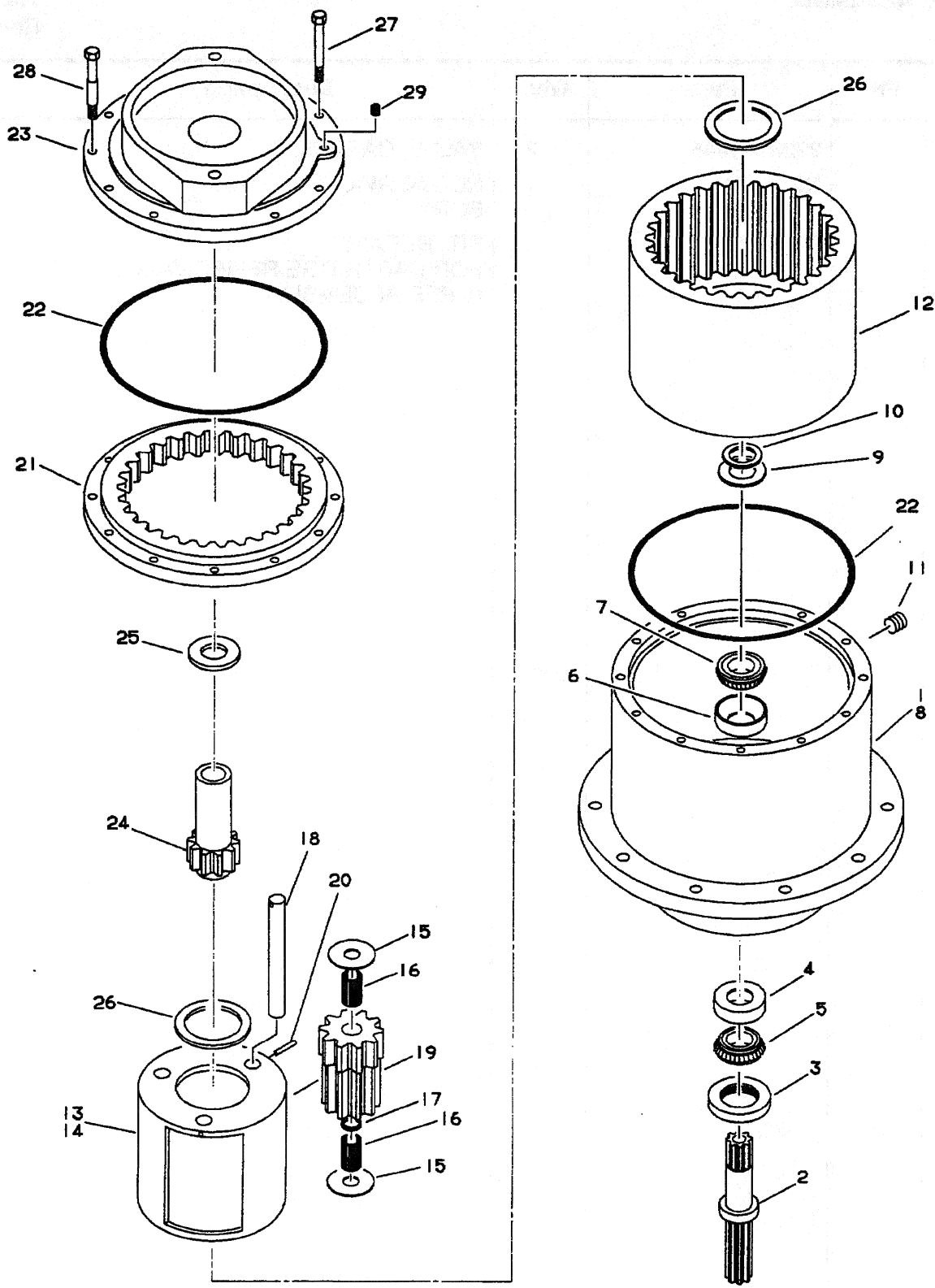
Description
VALVE ASSEMBLY

Assembly No.
7926001339
Revision:

Item	FN	Part	Qty	Description
1		9926103446	2	VALVE, CARTRIDGE
2	#	NS	1	NOT SERVICED BODY
3	*	9926103447	2	KIT, REPAIR FOR CARTRIDGE RELIEF VALVE (1 PER ASSEMBLY)

SERVICED AS AN ASSEMBLY ONLY

* REPAIR KIT AND/OR PART OF KIT



Manitowoc Crane Group

Description

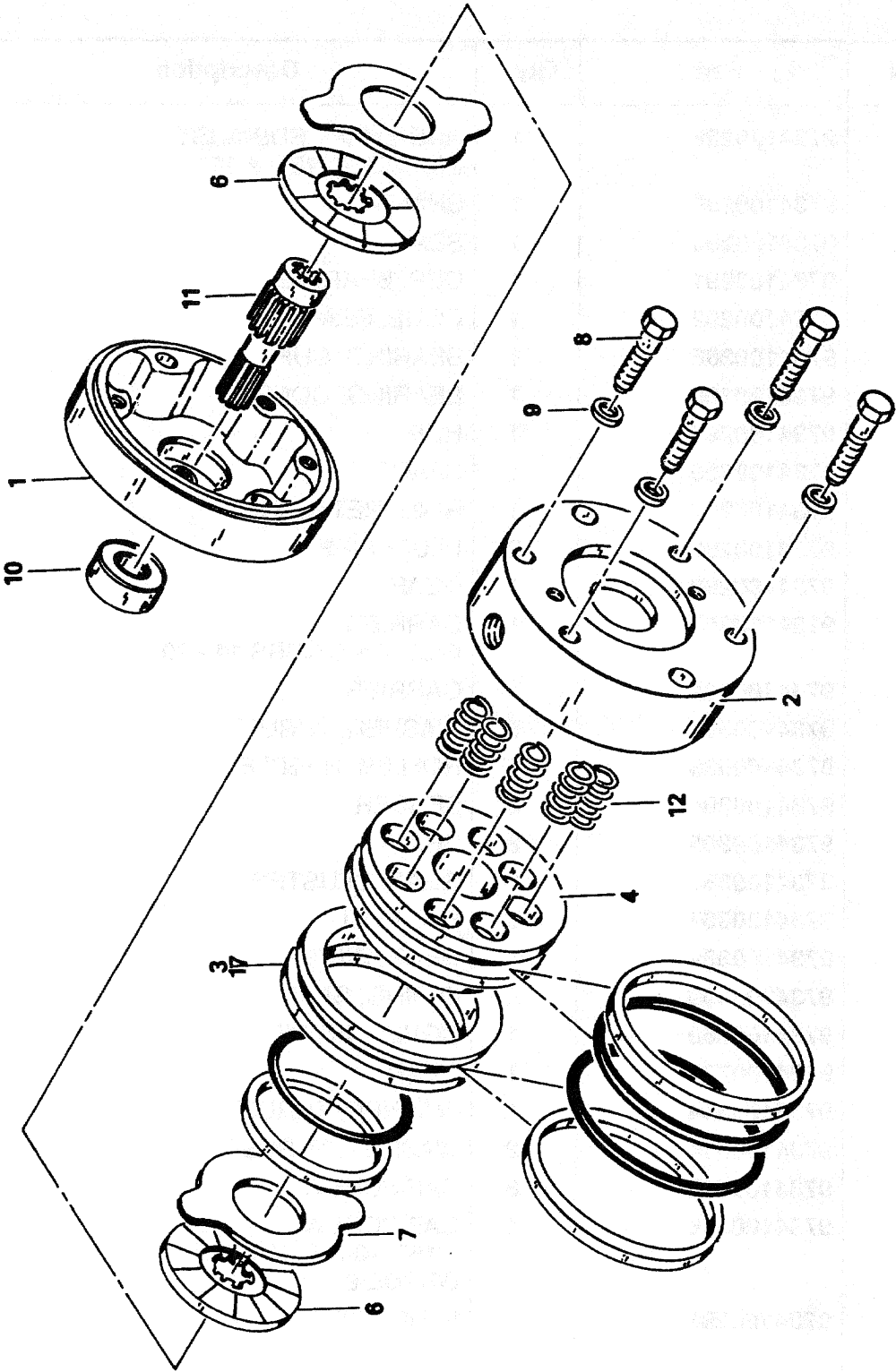
PLANETARY GEAR REDUCER ASSEMBLY

Assembly No.

7734000113

Revision:

Item	FN	Part	Qty	Description
1		9734100288	1	HUB-SHAFT SUB-ASSY INCLUDES NBR 2-11
2		9734100289	1	SHAFT
3		9734100290	1	SEAL
4		9734100291	1	CUP, BEARING
5		9734100292	1	CONE, BEARING
6		9734100386	1	BEARING, CUP
7		9734100385	1	BEARING, CONE
8		9734100295	1	HUB
9		9734100700	1	SPACER
10		9734100297	1	RING, RETAINING
11		9734100298	2	PLUG, PIPE
12		9734100299	1	GEAR
13		9734100357	1	CARRIER INCLUDES NBRS 14 - 20
14		9734100301	1	CARRIER
15		9734100537	6	WASHER, THRUST
16		9734100538	96	ROLLER, NEEDLE
17		9734100304	3	SPACER
18		9734100305	3	SHAFT
19		9734100358	3	GEAR, CLUSTER
20		9734100307	3	PIN, ROLL
21		9734100359	1	GEAR, RING
22		9734100309	2	O-RING, SEAL
23		9734100360	1	COVER, INPUT
24		9734100774	1	GEAR
25		9734100364	1	WASHER, THRUST
26		9734100314	2	WASHER, THRUST
27		9734100315	8	CAP SCREW
28		9734100316	4	CAP SCREW 5/16" -18 N.C. X 1 7/8" GRADE 8
29		9734100298	1	PLUG, PIPE



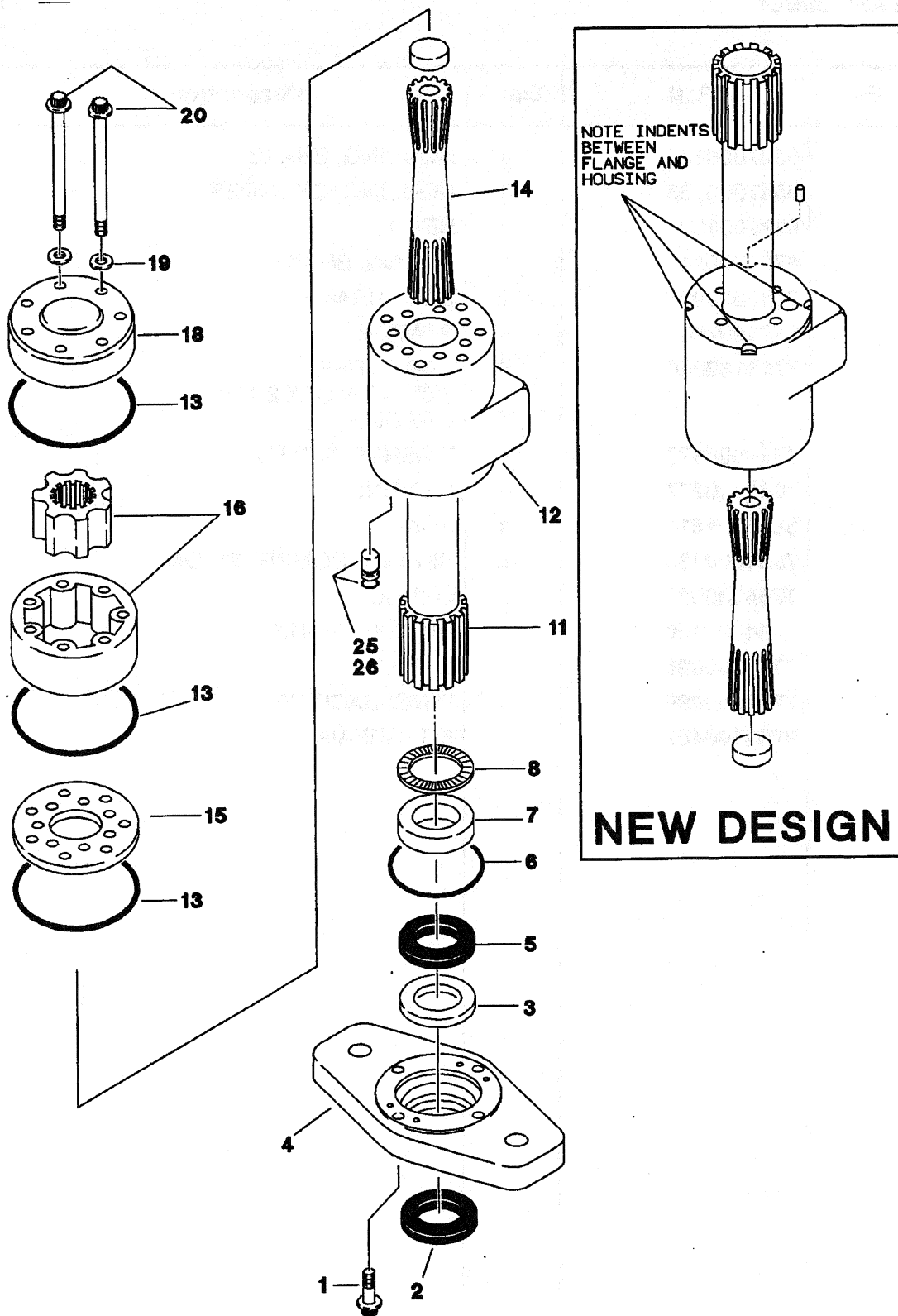
Manitowoc Crane Group

Description
BRAKE ASSEMBLY

Assembly No.
6188000107
Revision: **F**

Item	FN	Part	Qty	Description
1		6547000134	1	HOUSING, BRAKE
2		6547000133	1	HOUSING, CYLINDER
3		6372001332	1	HEAD
4		6701000144	1	PISTON, BRAKE
6		7188000095	2	DISC, BRAKE
7		6705007946	1	STATOR
8		7115162050	4	CAP SCREW 3/8" - 16 N.C. X 2 1/2" GRADE 5
9		7949000377	4	WASHER, 3/8" I.D.
10		7069000277	1	BEARING
11		6810001611	1	SHAFT
12		7834000138	8	SPRING, COMPRESSION
13	*	7754000097	2	O-RING
14	*	7754000100	2	RING, BACK-UP
15	*	7754000096	1	O-RING
16	*	7754000099	1	RING, BACK-UP
17	*	9752100402	1	KIT, REPAIR

* REPAIR KIT AND/OR PART OF KIT



Manitowoc Crane Group

Description

MOTOR ASSEMBLY - ORBIT

Assembly No.

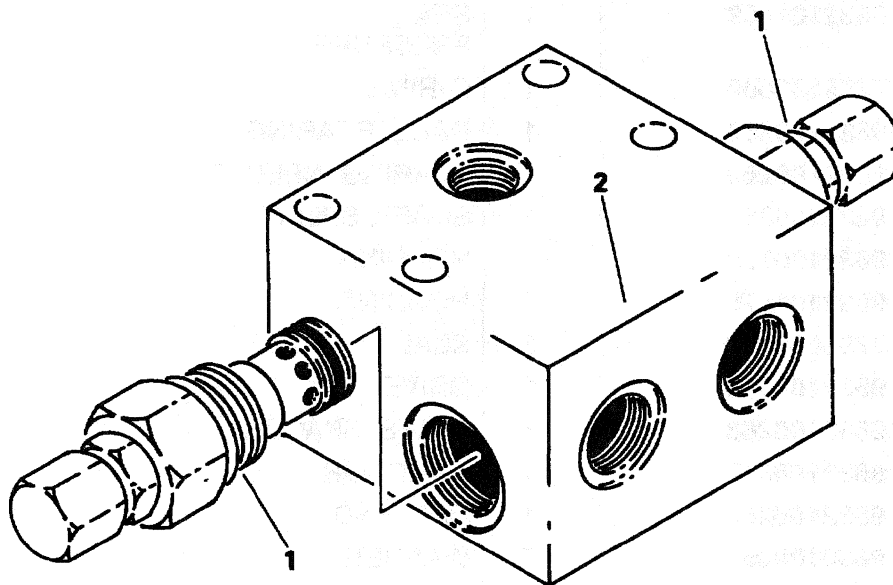
7632000082

Revision:

Item	FN	Part	Qty	Description
1		9632100046	4	CAP SCREW 5/16" -24 N.F. X 7/8"
2	*	9632100256	1	SEAL, DUST
2	%*	9632101238	1	SEAL, DUST
3	%	9632101460	1	RING, BACK-UP
4		9632100257	1	FLANGE
4	%	9632101458	1	FLANGE, MOUNTING
5	*	9632100258	1	SEAL
5	%*	9632101459	1	SEAL, PRESSURE
6	*	7755132000	1	O-RING
7		9632100259	1	RACE, BEARING
8		9632100260	1	BEARING, NEEDLE
11		9632100261	1	SHAFT, SPLINE
12		9632100732	1	HOUSING
12	%	9632101475	1	HOUSING
13	*	7755040000	3	SEAL
14		9632100015	1	DRIVE
15		9632100263	1	PLATE, SPACER
16		9632100357	1	GEROTOR
18		9632100266	1	CAP, END
19	*	9632100052	7	WASHER
19	%*	9632101466	7	SEAL, WASHER
20		9632100358	7	CAP SCREW
25	*	7755012000	1	O-RING
25	%	9632101462	1	O-RING
26		9632100011	1	PLUG
26		9632101463	1	PLUG
27	*	9632100267	1	REPAIR KIT - ORBIT MOTOR
27	%*	9632101468	1	KIT, SEAL

* REPAIR KIT AND/OR PART OF KIT

% SEE NOTE AT END OF LIST



Manitowoc Crane Group

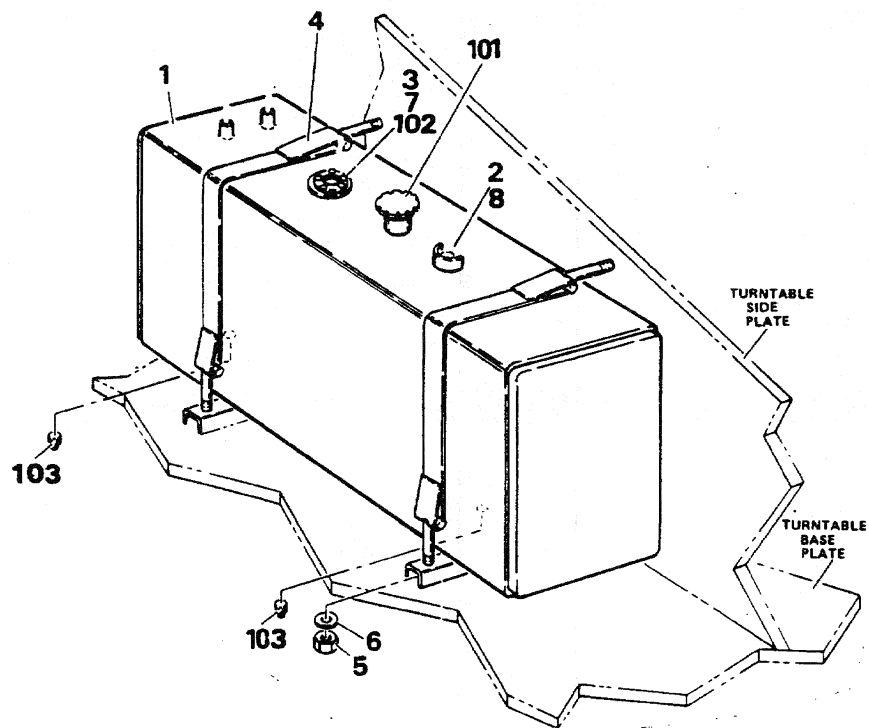
Description
VALVE ASSEMBLY

Assembly No.
7926001339
Revision:

Item	FN	Part	Qty	Description
1		9926103446	2	VALVE, CARTRIDGE
2	#	NS	1	NOT SERVICED BODY
3	*	9926103447	2	KIT, REPAIR FOR CARTRIDGE RELIEF VALVE (1 PER ASSEMBLY)

SERVICED AS AN ASSEMBLY ONLY

* REPAIR KIT AND/OR PART OF KIT



Manitowoc Crane Group

Description

FUEL TANK INSTALLATION

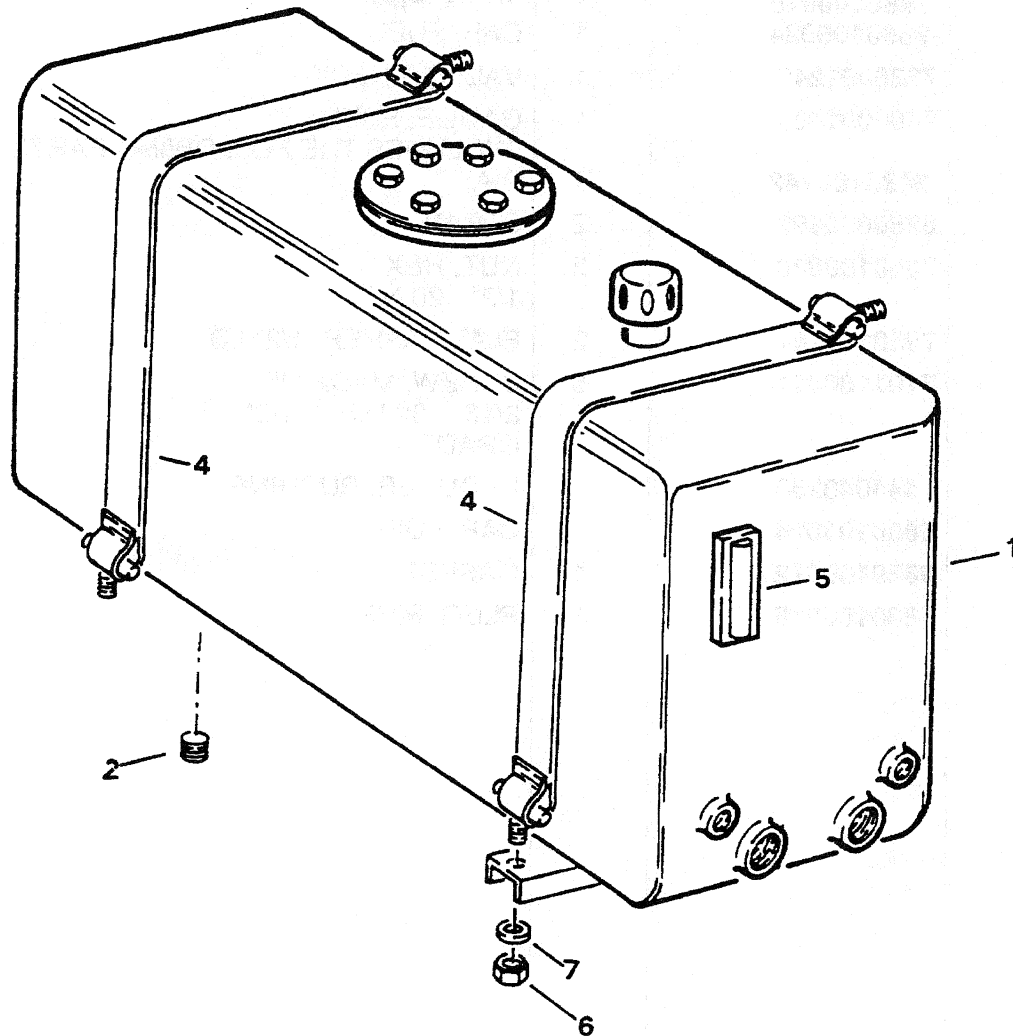
Assembly No.

2143200033

Revision: **A**

Item	FN	Part	Qty	Description
1		7880000209	1	TANK ASSY INCLUDES NBR 101-103 INCLUDES THE FOLLOWING PARTS
		9880100015	1	PLUG, PIPE
		9880100024	1	CAP, FUEL
2	#	7926001246	1	VALVE, CHECK
3		7486001230	1	GAUGE, FUEL INCLUDES THE FOLLOWING PARTS
		9486100142	1	DIAL
4		6850000199	2	STRAP
5		7660180030	2	NUT, HEX 1/2" - 20 N.F.
6		7950180141	2	FLATWASHER, 1/2" I.D.
7		7101100411	5	SCREW, MACHINE 3/16" - 32 N.F. X 1/2" GRADE 1
8		7444040250	1	REDUCER, BUSHING
101		9880100024	1	CAP, FUEL
102		9880100012	1	GASKET
103		9880100015	2	PLUG, PIPE

SERVICED AS AN ASSEMBLY ONLY



Manitowoc Crane Group

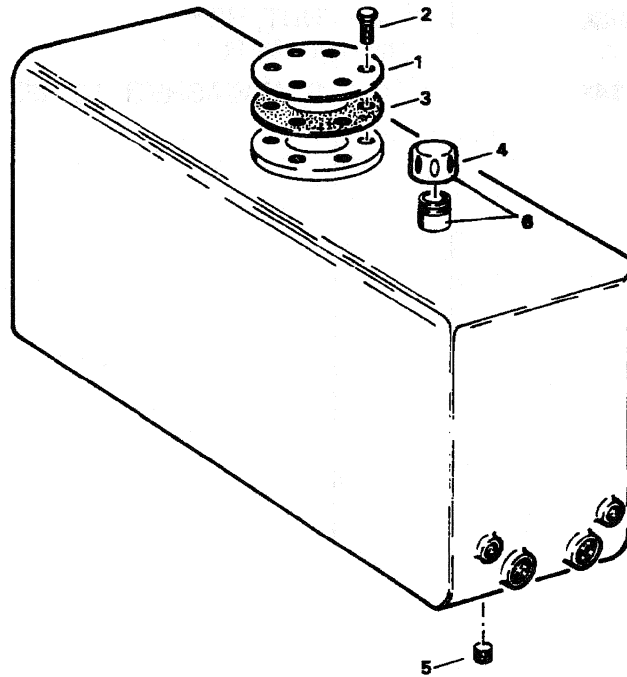
Description
TANK INSTALLATION - HYDRAULIC OIL

Assembly No.
2143200010
Revision: B

Item	FN	Part	Qty	Description
1	+	7880000183	1	TANK ASSEMBLY - HYDRAULIC
2		7709000157	1	PLUG, MAGNETIC
4		6850000199	2	STRAP
5	#	7486000628	1	GAUGE, OIL LEVEL INCLUDES THE FOLLOWING PARTS
		9486100132	1	O-RING
		9486100133	1	GASKET
		9486100145	1	O-RING
6		7660180030	2	NUT, HEX 1/2" - 20 N.F.
7		7950180141	2	FLATWASHER, 1/2" I.D.

+ SEE FURTHER BREAKDOWN THIS GROUP

SERVICED AS AN ASSEMBLY ONLY



Manitowoc Crane Group

Description

TANK ASSEMBLY - HYDRAULIC

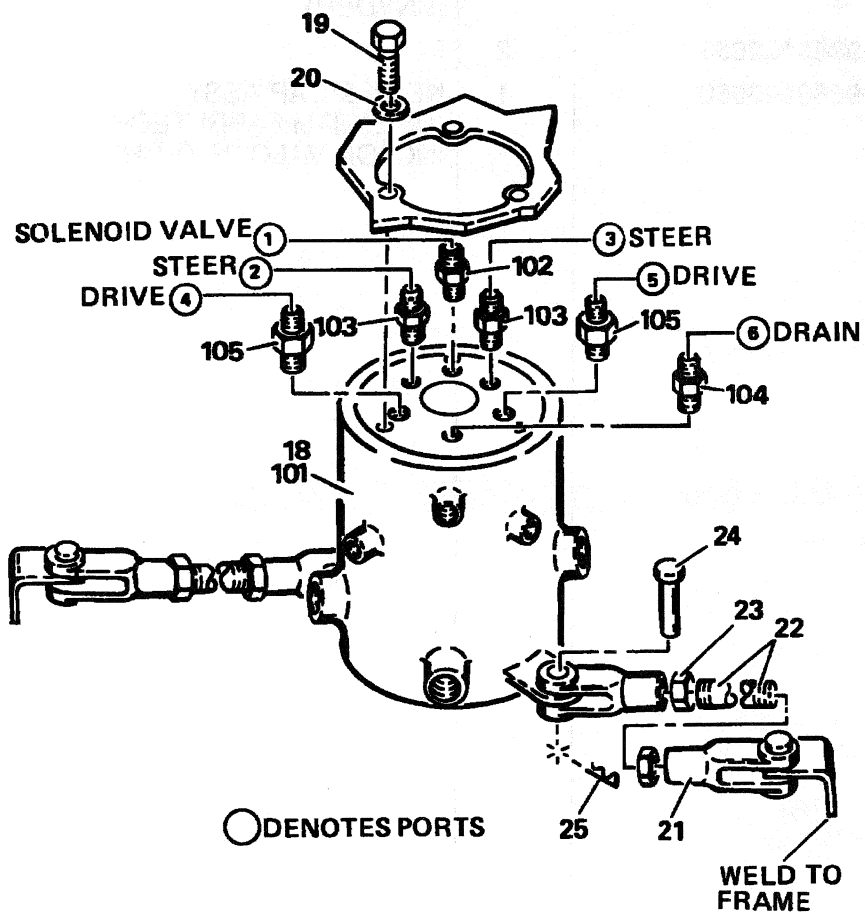
Assembly No.

7880000183

Revision:

Item	FN	Part	Qty	Description
1		9880100033	1	COVER
2		9880100040	6	CAP SCREW
3		9880100035	1	GASKET
4	%	9880100036	1	CAP (SNYDER)
5		9880100053	2	PLUG
6	%	9880100080	1	NECK & CAP ASSY (USE WITH FABRI-TECH INC. OR VALCAN TECH)

% SEE NOTE AT END OF LIST



Manitowoc Crane Group

Description

SWIVEL INSTALLATION - HYDRAULIC

Assembly No.

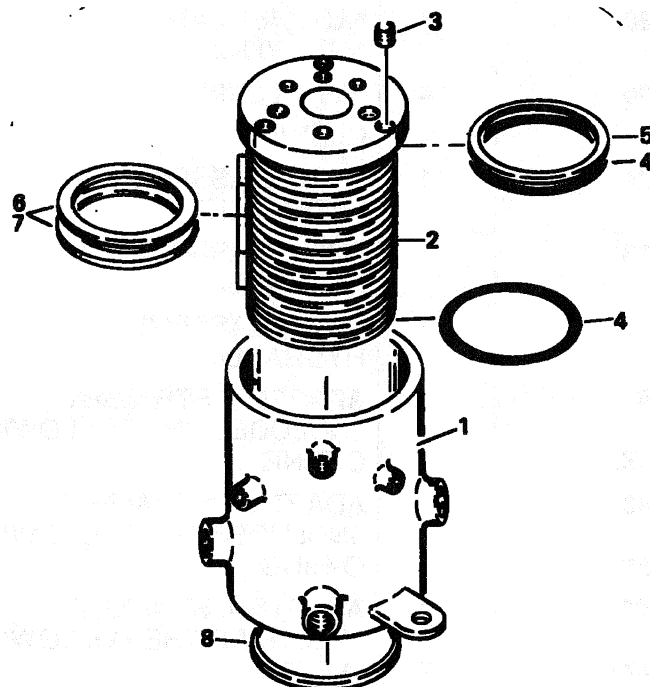
6364001290

Revision: **C**

Item	FN	Part	Qty	Description
18	+	6364003052	1	SWIVEL ASSEMBLY, HYDRAULIC -
19		7115161650	3	CAP SCREW 3/8" - 16 N.C. X 2" GRADE 5
20		7950160150	3	WASHER, 3/8" I.D.
21		7308000013	4	YOKE
22		2143100023	2	ROD
23		7660180230	4	NUT, HEX JAM 1/2" - 20 N.F.
24		7690182400	4	PIN, CLEVIS
25		7312000095	4	CLIP, PIN
101	+=	6364001284	1	SWIVEL ASSEMBLY - HYDRAULIC
101	+=	6364001513	1	SWIVEL ASSEMBLY - HYDRAULIC
101	+	6364001513	1	SWIVEL ASSEMBLY - HYDRAULIC
102		7445040443	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755904002	1	O-RING
103		7445060643	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755906002	1	O-RING
104		7445080843	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755908002	1	O-RING
105		7445121243	2	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755912002	1	O-RING

+ SEE FURTHER BREAKDOWN THIS GROUP

= REFER TO MCI FOR APPLICABLE NUMBER



Manitowoc Crane Group

Description

SWIVEL ASSEMBLY - HYDRAULIC

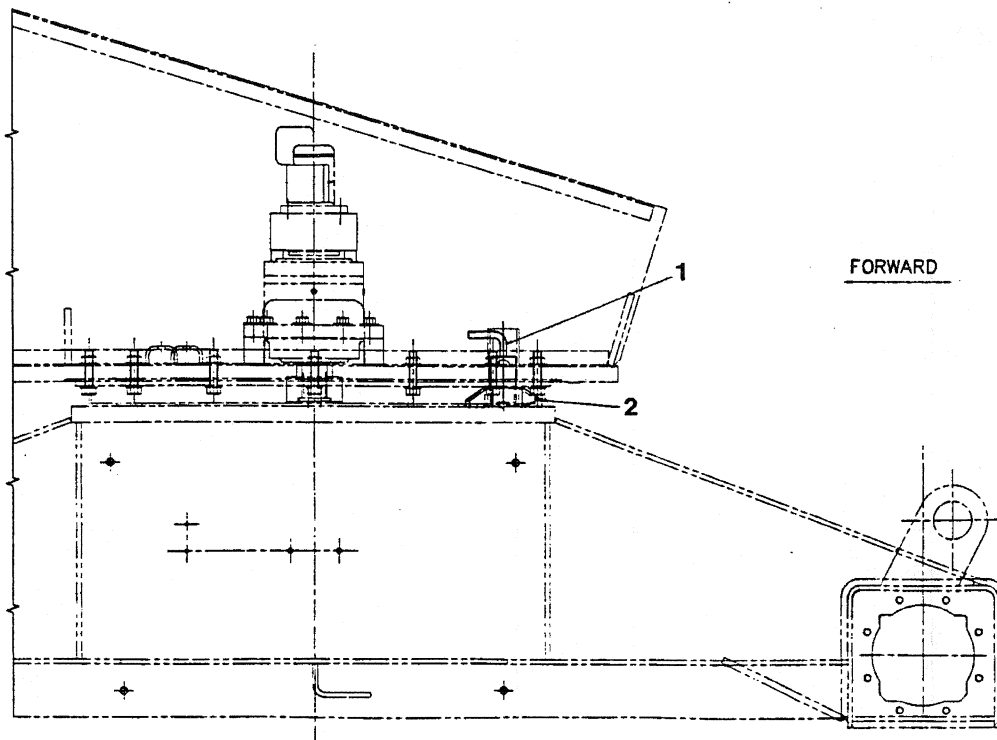
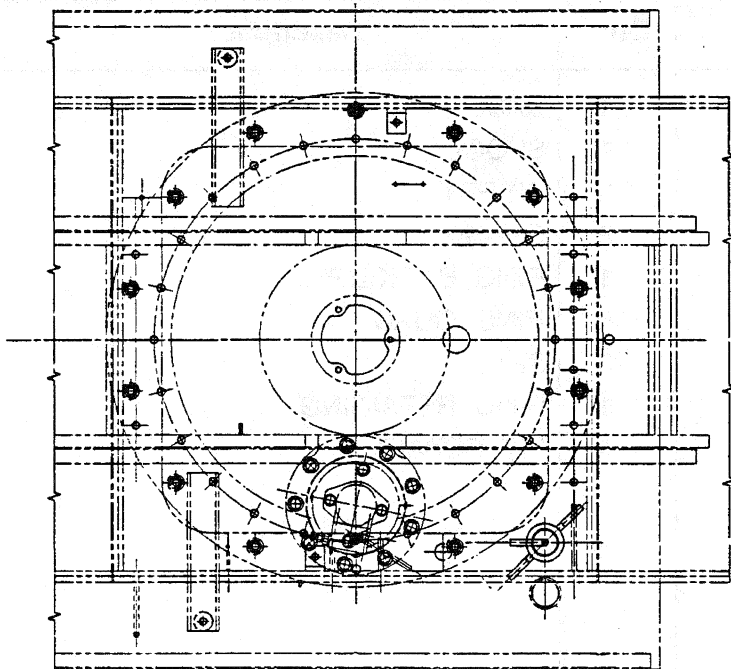
Assembly No.

6364001284

Revision: **D**

Item	FN	Part	Qty	Description
1		6274000063	1	CASE
2		6830000050	1	SPOOL
3		7099000137	3	INSERT
4	*	7755429000	2	O-RING
5	*	7755429609	1	RING, BACK-UP
6	*	7755159400	5	RING, QUAD
7	*	7753000536	5	SEAL
8		7753000170	1	RING, RETAINING
9	*	9752100385	1	KIT, REPAIR

* REPAIR KIT AND/OR PART OF KIT

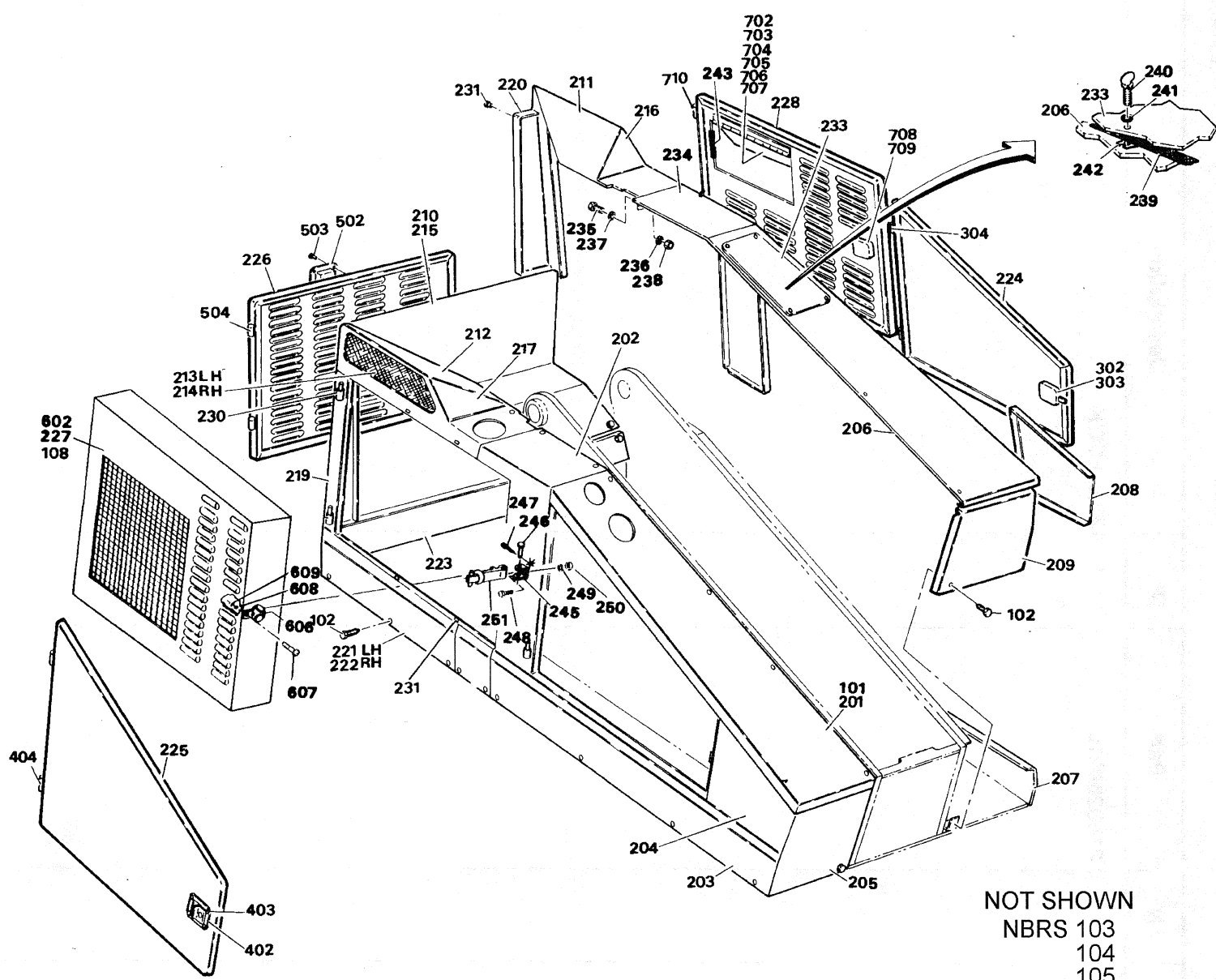


Manitowoc Crane Group

Description
LOCK INSTALLATION - TURNTABLE

Assembly No.
2145200701
Revision: **A**

Item	FN	Part	Qty	Description
1		2146200010	1	PIN, LOCK



NOT SHOWN
NBRS 103
104
105

Manitowoc Crane Group

Description
METAL INSTALLATION - SHEET

Assembly No.
2145100036
Revision: **C**

Item	FN	Part	Qty	Description
101		2145100035	1	SHEET METAL ASSEMBLY INCLUDES NBRS 201 - 251
102		7110150818	38	CAP SCREW 5/16" - 18 N.C. X 1" GRADE 1
103		7950150050	38	LOCKWASHER, 5/16" I.D.
104		7950150141	38	WASHER, 5/16" I.D.
105		7659000256	38	NUT, RETAINING 5/16" - 18 N.C.
108		8246964300	4	MOULDING (QUANTITY IN FEET) (QUANTITY IN FEET)
201		4144200093	1	PLATE, LEFT HAND REAR TOP
202		4144200078	1	PANEL, LEFT HAND SIDE
203		4144200062	1	PANEL, LEFT HAND REAR SIDE
204		4144200057	1	PANEL, LEFT HAND REAR SIDE
205		4144200059	1	PANEL, LEFT HAND REAR
206		4144200091	1	PLATE, RIGHT HAND REAR TOP
207		4144200063	1	PLATE, RIGHT HAND REAR SIDE
208		4144200058	1	PANEL, RIGHT HAND REAR SIDE
209		4144200060	1	PLATE, RIGHT HAND REAR
210		4144200080	1	PLATE, CENTER FRONT TOP
211		4144200081	1	PLATE, RIGHT HAND FRONT TOP
212		4144200086	1	PLATE, LEFT HAND FRONT TOP
213		4144200076	1	METAL, LEFT HAND EXPANDED
214		4144200077	1	METAL, RIGHT HAND EXPANDED
215		4144200075	1	METAL, FRONT EXPANDED
216		4144200084	1	PANEL, RIGHT HAND END
217		4144200083	1	PANEL, LEFT HAND END
219		4144200069	1	PANEL, LEFT HAND FRONT CORNER
220		4144200070	1	PANEL, RIGHT HAND FRONT CORNER
221		4144200061	1	PLATE, LEFT HAND FRONT SIDE
222		4144200067	1	PLATE, RIGHT HAND FRONT SIDE
223		4144200068	1	PANEL, LOWER FRONT
224		2146800009	1	DOOR, RIGHT HAND REAR INCLUDES THE FOLLOWING PARTS
		4144800031	2	HINGE, BLOCK

Manitowoc Crane Group

Description

METAL INSTALLATION - SHEET

Assembly No.

2145100036

Revision: **C**

Item	FN	Part	Qty	Description
	#	7585000095	1	LATCH, RECESSED PADDLE
		7760000016	4	RIVET, POP
225		2146800010	1	DOOR, LEFT HAND REAR INCLUDES THE FOLLOWING PARTS
	#	4144800031	2	HINGE, BLOCK
		7585000095	1	LATCH, RECESSED PADDLE
226		2146800016	1	DOOR ASSEMBLY INCLUDES NBRS 502 - 504
227		2154200006	1	DOOR ASSEMBLY - LEFT HAND INCLUDES NBRS 602 - 609
228		2144200052	1	DOOR ASSEMBLY - RIGHT HAND INCLUDES NBRS 702 - 710
230		2144800006	5	HINGE, MALE INCLUDES THE FOLLOWING PARTS
		7690183291	1	PIN 1/2" X 2"
231		7195000031	33	BUMPER, RUBBER
232		4144800033	4	LATCH
233		4146800063	1	COVER
234		4144200079	1	PANEL, RIGHT HAND SIDE
235		7115160850	6	CAP SCREW 3/8" - 16 N.C. X 1" GRADE 5
236		7950160050	6	LOCKWASHER, 3/8" I.D.
237		7950160161	6	FLATWASHER, 3/8" I.D.
238		7660160000	6	NUT, HEX 3/8" - 16 N.C.
239		9794100011	1	MOULDING (CUT 6" LONG)
240		7429000018	4	FASTENER, SCREW
241		7753000429	4	RETAINER
242		7892000095	4	RECEPTACLE,
243		9637100001	1	MOULDING 10 FEET (MUST CUT TO LENGTH NEEDED) (QUANTITY IN FEET)
244		2144800077	5	HINGE, MALE
245		7184000449	1	BRACKET, ANCHOR
246		7690153201	1	PIN, CLEVIS

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Crane Group

Description

METAL INSTALLATION - SHEET

Assembly No.

2145100036

Revision: **C**

Item	FN	Part	Qty	Description
101		2145100035	1	SHEET METAL ASSEMBLY INCLUDES NBRS 201 - 251
102		7110150818	38	CAP SCREW 5/16" - 18 N.C. X 1" GRADE 1
103		7950150050	38	LOCKWASHER, 5/16" I.D.
104		7950150141	38	WASHER, 5/16" I.D.
105		7659000256	38	NUT, RETAINING 5/16" - 18 N.C.
108		8246964300	4	MOULDING (QUANTITY IN FEET) (QUANTITY IN FEET)
201		4144200093	1	PLATE, LEFT HAND REAR TOP
202		4144200078	1	PANEL, LEFT HAND SIDE
203		4144200062	1	PANEL, LEFT HAND REAR SIDE
204		4144200057	1	PANEL, LEFT HAND REAR SIDE
205		4144200059	1	PANEL, LEFT HAND REAR
206		4144200091	1	PLATE, RIGHT HAND REAR TOP
207		4144200063	1	PLATE, RIGHT HAND REAR SIDE
208		4144200058	1	PANEL, RIGHT HAND REAR SIDE
209		4144200060	1	PLATE, RIGHT HAND REAR
210		4144200080	1	PLATE, CENTER FRONT TOP
211		4144200081	1	PLATE, RIGHT HAND FRONT TOP
212		4144200086	1	PLATE, LEFT HAND FRONT TOP
213		4144200076	1	METAL, LEFT HAND EXPANDED
214		4144200077	1	METAL, RIGHT HAND EXPANDED
215		4144200075	1	METAL, FRONT EXPANDED
216		4144200084	1	PANEL, RIGHT HAND END
217		4144200083	1	PANEL, LEFT HAND END
219		4144200069	1	PANEL, LEFT HAND FRONT CORNER
220		4144200070	1	PANEL, RIGHT HAND FRONT CORNER
221		4144200061	1	PLATE, LEFT HAND FRONT SIDE
222		4144200067	1	PLATE, RIGHT HAND FRONT SIDE
223		4144200068	1	PANEL, LOWER FRONT
224		2146800009	1	DOOR, RIGHT HAND REAR INCLUDES THE FOLLOWING PARTS
		4144800031	2	HINGE, BLOCK

Manitowoc Crane Group

Description
METAL INSTALLATION - SHEET

Assembly No.
2145100036
Revision: **C**

Item	FN	Part	Qty	Description
225	#	7585000095	1	LATCH, RECESSED PADDLE
		7760000016	4	RIVET, POP
		2146800010	1	DOOR, LEFT HAND REAR INCLUDES THE FOLLOWING PARTS
226	#	4144800031	2	HINGE, BLOCK
		7585000095	1	LATCH, RECESSED PADDLE
		2146800016	1	DOOR ASSEMBLY INCLUDES NBRS 502 - 504
227		2154200006	1	DOOR ASSEMBLY - LEFT HAND INCLUDES NBRS 602 - 609
228		2144200052	1	DOOR ASSEMBLY - RIGHT HAND INCLUDES NBRS 702 - 710
230		2144800006	5	HINGE, MALE INCLUDES THE FOLLOWING PARTS
		7690183291	1	PIN 1/2" X 2"
231		7195000031	33	BUMPER, RUBBER
232		4144800033	4	LATCH
233		4146800063	1	COVER
234		4144200079	1	PANEL, RIGHT HAND SIDE
235		7115160850	6	CAP SCREW 3/8" - 16 N.C. X 1" GRADE 5
236		7950160050	6	LOCKWASHER, 3/8" I.D.
237		7950160161	6	FLATWASHER, 3/8" I.D.
238		7660160000	6	NUT, HEX 3/8" - 16 N.C.
239		9794100011	1	MOULDING (CUT 6" LONG)
240		7429000018	4	FASTENER, SCREW
241		7753000429	4	RETAINER
242		7892000095	4	RECEPTACLE,
243		9637100001	1	MOULDING 10 FEET (MUST CUT TO LENGTH NEEDED) (QUANTITY IN FEET)
244		2144800077	5	HINGE, MALE
245		7184000449	1	BRACKET, ANCHOR
246		7690153201	1	PIN, CLEVIS

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Crane Group

Description

METAL INSTALLATION - SHEET

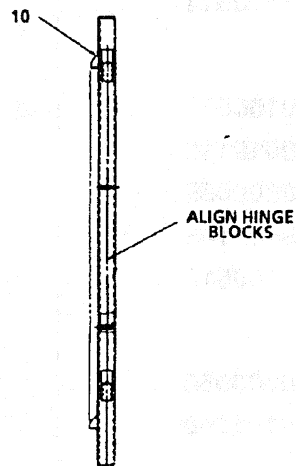
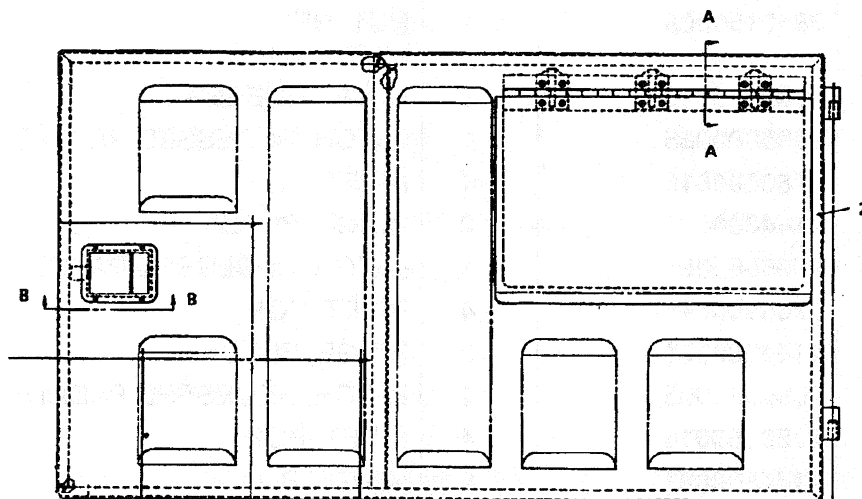
Assembly No.

2145100036

Revision: **C**

Item	FN	Part	Qty	Description
247		7312000095	1	CLIP, PIN
248		7115150450	1	CAP SCREW 5/16" - 18 N.C. X 1/2" GRADE 5
249		7950150050	1	LOCKWASHER, 5/16" I.D.
250		7660150000	1	NUT, HEX 5/16" - 18 N.C.
251		7539000049	1	HOOK, RUBBER
302	#	7585000095	1	LATCH, RECESSED PADDLE
303		7760000016	4	RIVET, POP
304		4144800031	2	HINGE, BLOCK
402	#	7585000095	1	LATCH, RECESSED PADDLE
403		7760000016	4	RIVET, POP
404		4144800031	2	HINGE, BLOCK
502	#	7585000095	1	LATCH, RECESSED PADDLE
503		7760000016	4	RIVET, POP
504		4144800031	2	HINGE, BLOCK
602		4144800031	1	HINGE, BLOCK
606		7184000450	1	BRACKET, HOOD
607		7111100511	2	SCREW, MACHINE 5/8" - 11 N.C. X 5/8" GRADE 1
608		7950100050	2	LOCKWASHER, 3/16" I.D.
609		7660010110	2	NUT
702		4146800055	1	COVER
703		6519000145	1	HINGE
704		7111100510	12	SCREW, MACHINE 3/16" - 24 N.C. X 5/8" GRADE 1
705		7950100050	12	LOCKWASHER, 3/16" I.D.
706		7660101100	12	NUT, HEX 3/16" - 32 N.F. GRADE 1
707		7834000059	3	SPRING, DOOR RETAINING
708		7760000016	4	RIVET, POP
709	#	7585000095	1	LATCH, RECESSED PADDLE
710		4144800031	2	HINGE, BLOCK

SERVICED AS AN ASSEMBLY ONLY



Manitowoc Crane Group

Description

DOOR ASSEMBLY - RIGHT HAND

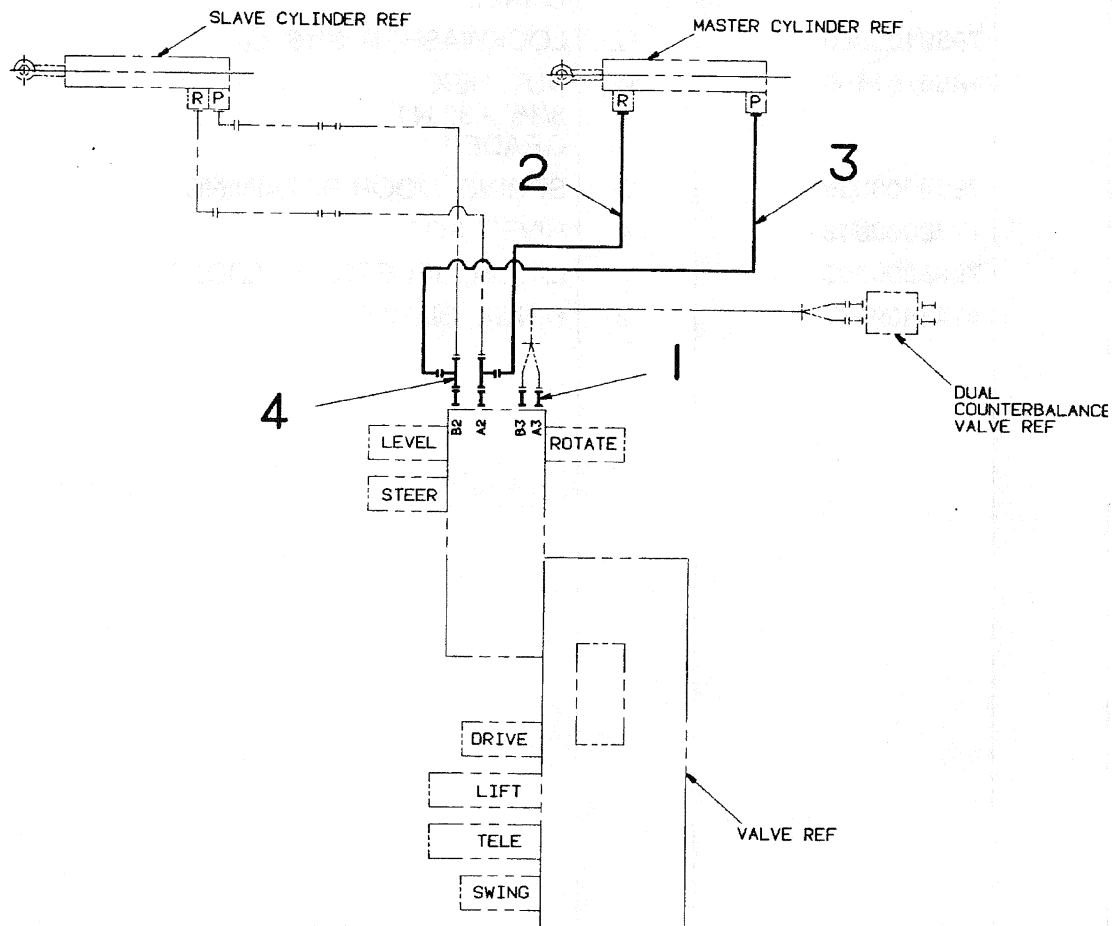
Assembly No.

2144200052

Revision: **C**

Item	FN	Part	Qty	Description
2		4146800055	1	COVER
3		6519000145	1	HINGE
4		7111100510	12	SCREW, MACHINE 3/16" - 24 N.C. X 5/8" GRADE 1
5		7950100050	12	LOCKWASHER, 3/16" I.D.
6		7660101100	12	NUT, HEX 3/16" - 32 N.F. GRADE 1
7		7834000059	3	SPRING, DOOR RETAINING
8		7760000016	4	RIVET, POP
9	#	7585000095	1	LATCH, RECESSED PADDLE
10		4144800031	2	HINGE, BLOCK

SERVICED AS AN ASSEMBLY ONLY



Manitowoc Crane Group

Description

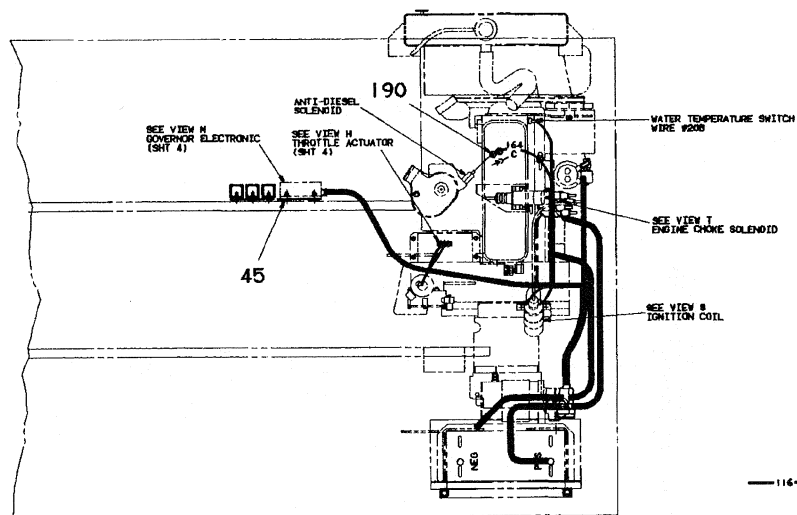
HYDRAULIC LINES INSTALLATION - LEVEL AND ROTATE

Assembly No.

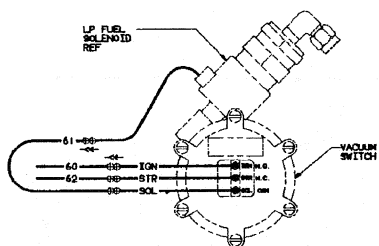
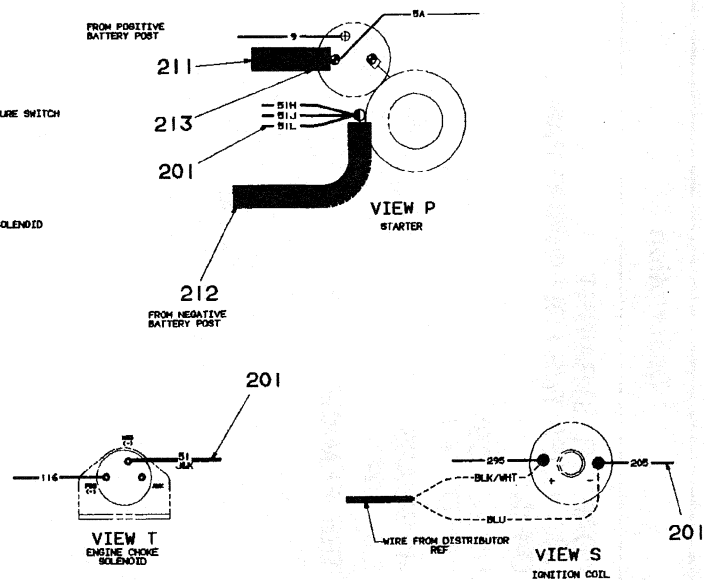
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Revision: #

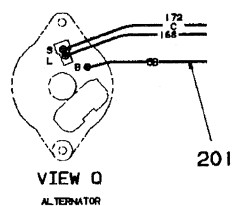
Item	FN	Part	Qty	Description
1		7445060643	4	ADAPTER, STRAIGHT
		7755906002	1	INCLUDES THE FOLLOWING PARTS
2		7550204021	1	O-RING
			1	HOSE ASSY
				3/8" I.D. X 40"
3		7550202421	1	HOSE ASSY
				3/8" X 24"
4		7888000120	2	TEE, FEMALE



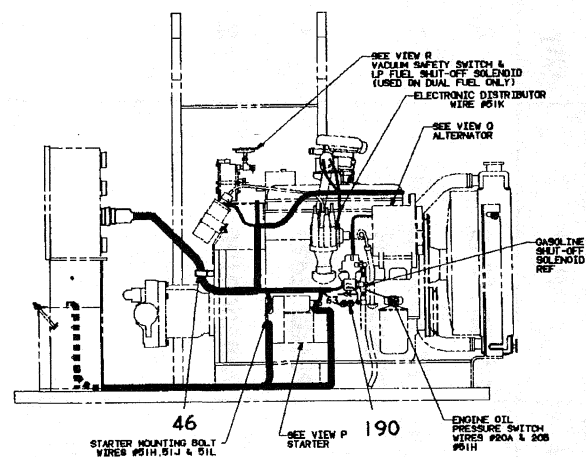
TOP VIEW



VIEW R
(FOR DUAL FUEL INST. ONLY)
VACUUM SAFETY SWITCH &
LP FUEL SHUT-OFF SOLENOID



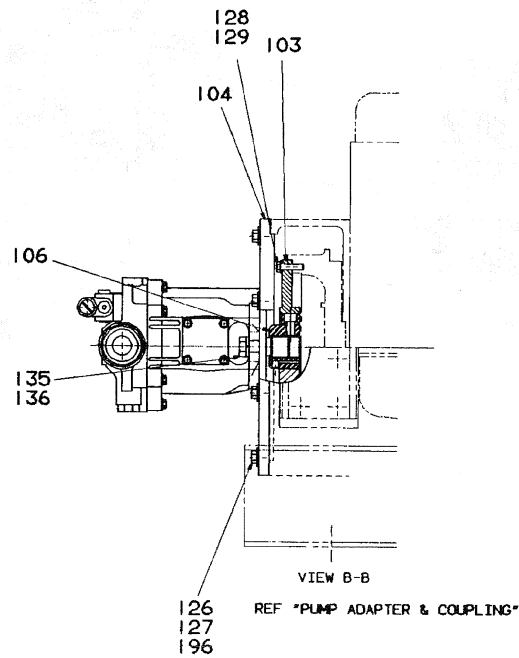
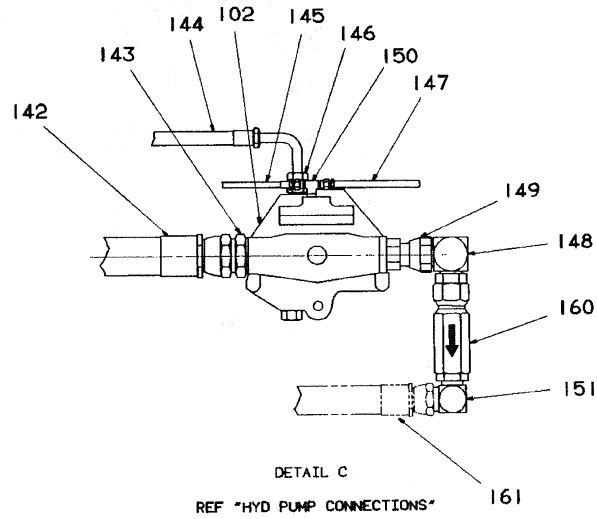
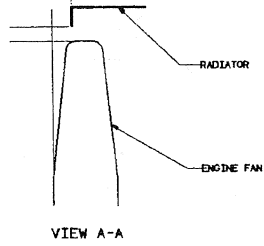
VIEW O
ALTERNATOR

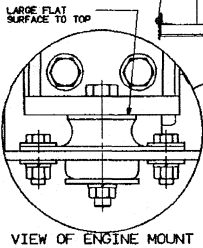
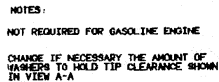


FRONT VIEW



Manitowoc Crane Group





Manitowoc Crane Group

Description

POWER UNIT INSTALLATION - NISSAN A-15 (GAS)

Assembly No.

2154800742

Revision: **D**

Item	FN	Part	Qty	Description
2		7115182050	4	CAP SCREW 1/2" - 13 N.C. X 2 1/2" GRADE 5
3		7660180001	4	NUT, HEX 1/2" - 13 N.C. GRADE 5
4		7949000235	8	WASHER, 1/2" I.D.
5		7502000513	1	GOVERNOR, ELECT CONTROLLER INCLUDES THE FOLLOWING PARTS
		7689000704	1	PIN 14 - 16 AWG
		7892000824	1	RECEPTACLE, 6 PIN
8		6443000861	1	ADAPTER, 90 DEGREE
9		7649000031	1	NIPPLE, HOSE
10		7300000121	1	CLAMP, HOSE
11		6543002069	1	HOSE ASSY 80"
12	#	7437000104	1	FILTER, FUEL
13		7649000004	1	NIPPLE, HOSE
14		7445080404	1	ELBOW, 90 DEGREE
15		7950140052	4	LOCKWASHER 1/4"
16		7950100141	7	WASHER, #10 FLAT PLAIN NARROW
17		7111100615	3	SCREW, MACHINE 3/16" - 24 N.C. X 3/4" GRADE 1
18	+	7304000082	1	CLEANER ASSEMBLY - AIR
19		7535000058	1	HOOD, AIR INLET
20	#	7486001231	1	INDICATOR, SERVICE
21		7406000430	1	REDUCER, 90 DEGREE ELBOW
22		7056000081	2	BAND, MOUNTING
23		7118140850	8	CAP SCREW 1/4" - 20 N.C. X 1" GRADE 8
25		7660140008	8	NUT, HEX 1/4" - 20 N.C.
26		7300000155	2	CLAMP, HOSE 2 9/16" TO 3 1/2"

SERVICED AS AN ASSEMBLY ONLY

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Crane Group

Description

POWER UNIT INSTALLATION - NISSAN A-15 (GAS)

Assembly No.

2154800742

Revision: **D**

Item	FN	Part	Qty	Description
27		7642000097	1	MUFFLER
28		7300000094	2	CLAMP, MUFFLER
29		7660101100	7	NUT, HEX 3/16" - 32 N.F. GRADE 1
30		7950100050	7	LOCKWASHER, 3/16" I.D.
31		7910013113	1	TUBE, EXHAUST
32		7949000534	16	WASHER, HARDENED ROUND
34		9543100022	1	HOSE ASSY 3' PC. (MUST CUT TO LENGTH NEEDED) (CUT 1 1/2" LONG)
35		8596910280	1	HOSE ASSY (QUANTITY IN FEET) (CUT 8" LONG)
36		7910011117	1	PIPE, EXHAUST
37		6910012076	1	TUBE
38		6910012079	1	TUBE, FLEX EXHAUST
39		7300000431	2	CLAMP, MUFFLER 1.88" I.D.
40		7910012286	1	PIPE, EXHAUST
41		7184001787	2	BRACKET
42		7184001788	2	BRACKET
43		6705015980	1	PLATE
44	#	7750000114	3	RELAY, HOSTILE ENVIRONMENT
45		7950150141	8	WASHER, 5/16" I.D.
46		7300000104	1	CLAMP, TUBING 1" I.D.
102	+	7722000218	1	PUMP ASSEMBLY - PISTON COMPLETE ASSEMBLY
103		7450000919	1	FLANGE
104		6705009158	1	PLATE, PUMP MOUNTING
105		7660150000	2	NUT, HEX 5/16" - 18 N.C.
106		7548000640	1	HUB
107		2145800002	1	MOUNT, LEFT HAND
108		2145800780	1	MOUNT,RH
109		2145800010	1	FRAME, ENGINE

SERVICED AS AN ASSEMBLY ONLY

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Crane Group

Description

POWER UNIT INSTALLATION - NISSAN A-15 (GAS)

Assembly No.

2154800742

Revision: **D**

Item	FN	Part	Qty	Description
110		2145800001	2	MOUNT
111		7638000204	4	MOUNT, ENGINE
112		7115161050	8	CAP SCREW 3/8" - 16 N.C. X 1 1/4" GRADE 5
113		7950160140	24	FLATWASHER, 3/8" I.D.
114		7660160000	16	NUT, HEX 3/8" - 16 N.C.
115		7115172450	4	CAP SCREW 7/16" - 14 N.C. X 3" GRADE 5
116		7950170141	4	WASHER, 7/16" I.D.
117		7660170000	4	NUT, HEX 7/16" - 14 N.C.
118		7115181050	8	CAP SCREW 1/2" - 13 N.C. X 1 1/4" GRADE 5
119		7950180141	8	FLATWASHER, 1/2" I.D.
120		7661170003	4	NUT, HEX 8MM N.C.
121		7950150141	6	WASHER, 5/16" I.D.
122		7115150550	2	CAP SCREW 5/16" - 18 N.C. X 5/8" GRADE 5
123		7950150040	4	LOCKWASHER, 5/16" I.D.
124		7950160050	12	LOCKWASHER, 3/8" I.D.
125		7950170050	4	LOCKWASHER, 7/16" I.D.
126		7115161050	6	CAP SCREW 3/8" - 16 N.C. X 1 1/4" GRADE 5
127		7949000377	8	WASHER, 3/8" I.D.
128		7115151050	8	CAP SCREW 5/16" - 18 N.C. X 1 1/4" GRADE 5
129		7949000534	8	WASHER, HARDENED ROUND
130		6705012413	1	PLATE
132		7300000013	2	CLAMP, HOSE
134		9543100002	1	HOSE ASSY 5' PC. (MUST CUT TO LENGTH NEEDED)

Manitowoc Crane Group

Description
POWER UNIT INSTALLATION - NISSAN A-15 (GAS)

Assembly No.
2154800742
Revision: D

Item	FN	Part	Qty	Description
135		7105181050	2	(CUT 18" LONG) CAP SCREW 1/2" - 20 N.F. X 1 1/8" GRADE 5
136		7949000235	2	WASHER, 1/2" I.D.
137		7115140850	4	CAP SCREW 1/4" - 20 N.C. X 1" GRADE 5
138		7115140650	4	CAP SCREW 1/4" - 20 N.C. X 3/4" GRADE 5
139		7950140050	8	LOCKWASHER, 1/4" I.D.
140		7950140141	10	FLATWASHER, 1/4" I.D.
141		7660141100	8	NUT, HEX 1/4" - 20 N.C.
142		7543001234	1	HOSE ASSY 1 1/2" X 30"
143		7445242443	1	ADAPTER
144		7550202421	1	HOSE ASSY 3/8" X 24"
145		7550102620	1	HOSE ASSY 1/4" X 26"
146		7445061043	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755910002	1	O-RING
147		7550104220	1	HOSE ASSY 1/4" X 42"
148		7447161603	1	ELBOW, 90 DEGREE MALE INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755916002	1	O-RING
149		7447161640	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755916002	1	O-RING
150		7445040447	1	TEE 7755904002 O-RING .351" I.D.
151		7445161645	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755916002	1	O-RING

Manitowoc Crane Group

Description

POWER UNIT INSTALLATION - NISSAN A-15 (GAS)

Assembly No.

2154800742

Revision: **D**

Item	FN	Part	Qty	Description
152		7502000007	1	ACTUATOR, GOVERNOR
153		7126150950	1	CAP SCREW, M6 X 14MM HEX HEAD
154		7726000165	1	RADIATOR INCLUDES NBR 301
155		7543001831	1	HOSE, LOWER RADIATOR
156		7543001832	1	HOSE, UPPER RADIATOR
157		7300000167	4	CLAMP, HOSE
158		7444030031	3	PLUG, PIPE
159	#	6872001421	1	SWITCH, OIL PRESSURE
160	#	7926001227	1	VALVE, CHECK
162		6246001353	1	LANYARD
163	#	7364000582	2	COUPLING
168		7013000538	1	ADAPTER
170		7660101130	4	NUT, HEX 3/16" - 32 N.F. GRADE 1
171		6865101610	1	STUD 3/16" X 2"
174		6184001580	1	BRACKET
175		7308000042	1	YOKE
176		7690141200	1	PIN, CLEVIS 1/4" X 3/4"
177		7660140030	2	NUT, HEX 1/4" - 28 N.F.
178		7690001210	1	PIN, COTTER 1/16" X 3/4"
179		7750000085	1	SOLENOID ASSY INCLUDES THE FOLLOWING PARTS
		9750100035	1	BOOT
181		6184001563	1	BRACKET, SOLENOID
186		7126171253	2	CAP SCREW, M8 X 25MM HEX HEAD
187		7951170014	2	WASHER, 8MM I.D. FLAT
188		7951170210	3	LOCKWASHER, 8MM I.D.
189		7661170000	1	NUT, HEX 8MM N.C.
190		7345001746	4	TERMINAL, MALE 16 - 14 AWG

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Crane Group

Description

POWER UNIT INSTALLATION - NISSAN A-15 (GAS)

Assembly No.

2154800742

Revision: D

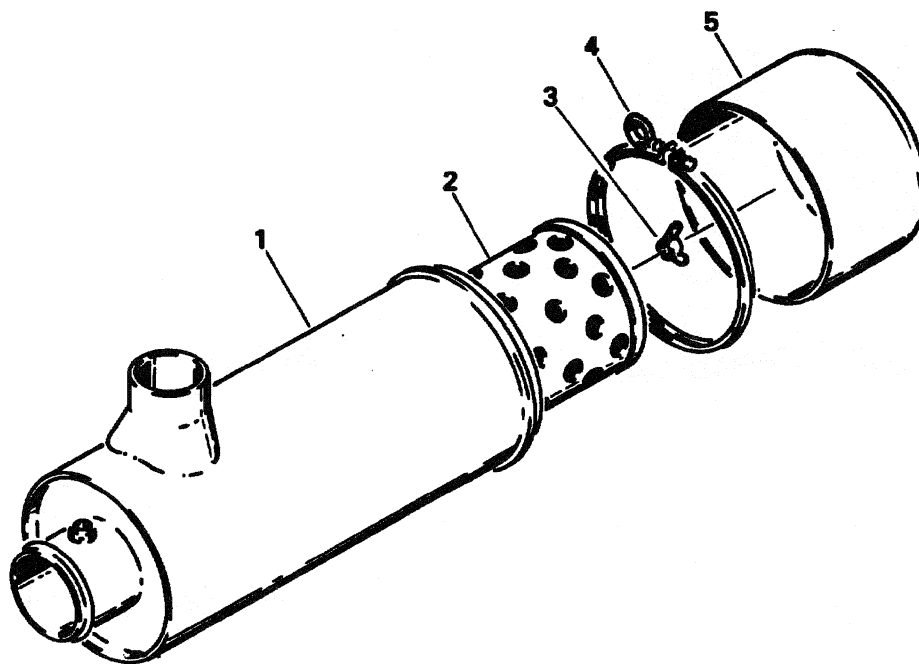
Item	FN	Part	Qty	Description
191		7445060655	1	TEE
192		7445060450	1	BUSHING, REDUCER
193	#	7872000664	1	SWITCH, TEMPERATURE
194		7443990244	1	CONNECTOR, MALE
195		7951150210	1	LOCKWASHER, 6MM I.D.
196		7115161250	2	CAP SCREW 3/8" - 16 N.C. X 1 1/2" GRADE 5
199		9543100001	1	HOSE ASSY 25' PC. (MUST CUT TO LENGTH NEEDED) (CUT 1' LONG)
200	#	7300000040	2	CLAMP, HOSE 29/32" I.D.
201	+	6512002038	1	HARNESS ASSEMBLY - ENGINE
202		7850000064	1	TIE, CABLE (NATURAL)
203		6184001628	1	BRACKET
204		6949000152	1	WASHER
206		7661130003	2	NUT, HEX 5MM
207		7950100050	2	LOCKWASHER, 3/16" I.D.
208	#	7661150003	1	NUT, HEX 6MM N.C.
209		7950140050	1	LOCKWASHER, 1/4" I.D.
210		6794001555	1	GASKET
211		6246002836	1	CABLE, BATTERY (RED) 54"
212		6246002838	1	CABLE, BATTERY (BLACK) 48"
213		7172000016	1	INSULATOR, BATTERY TERMINAL
301		SK900993	1	CAP, 7 PSI RADIATOR

SERVICED AS AN ASSEMBLY ONLY

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Crane Group

Notes



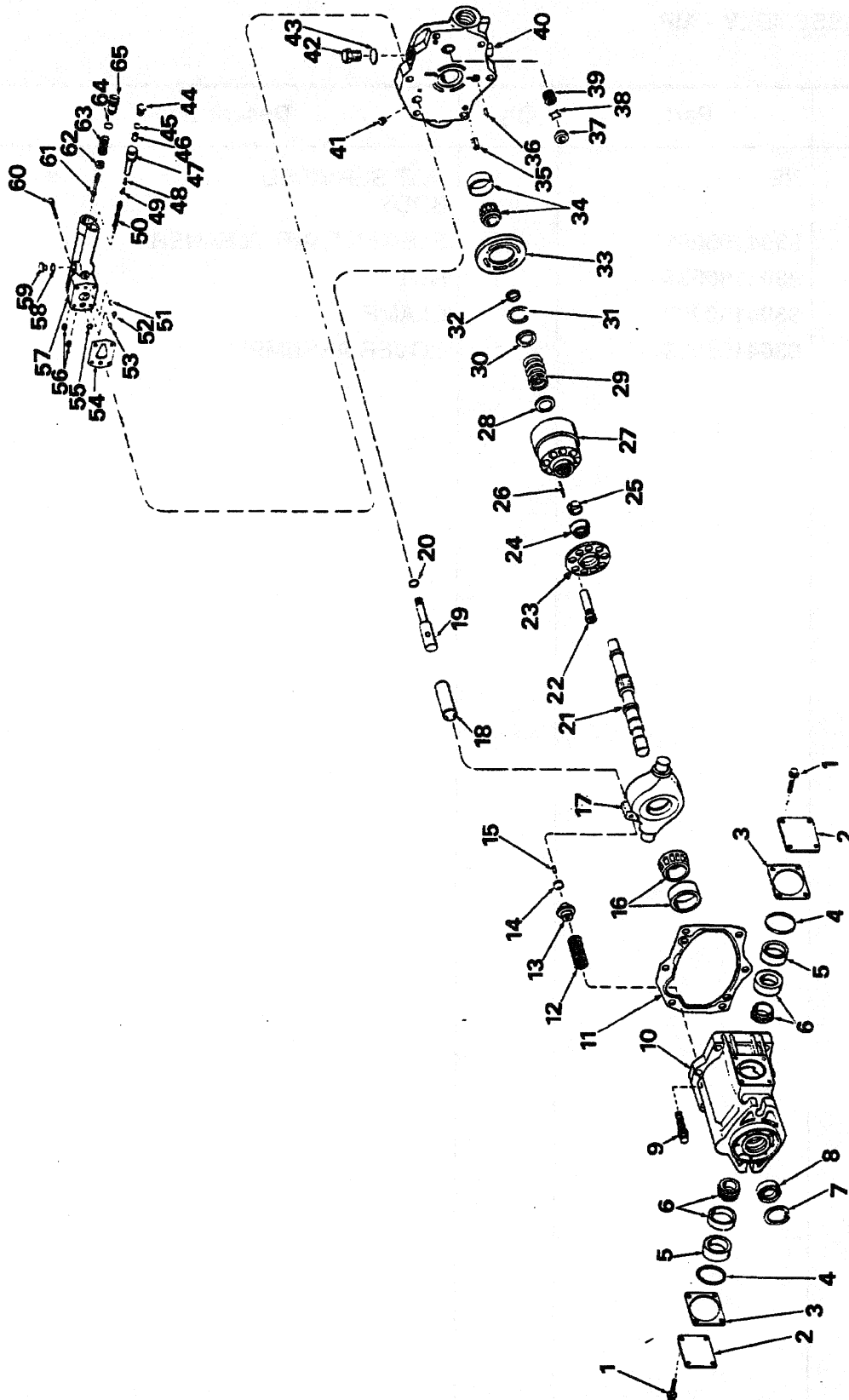
Manitowoc Crane Group

Description
CLEANER ASSEMBLY - AIR

Assembly No.
7304000082
Revision:

Item	FN	Part	Qty	Description
1	#	NS	1	NOT SERVICED BODY
2		9304100091	1	ELEMENT, AIR CLEANER
3		9304100086	1	NUT
4		9304100092	1	CLAMP
5		9304100093	1	COVER ASSEMBLY

SERVICED AS AN ASSEMBLY ONLY



Manitowoc Crane Group

Description

PUMP ASSEMBLY - PISTON COMPLETE ASSEMBLY

Assembly No.

7722000218

Revision:

Item	FN	Part	Qty	Description
1		9722101348	8	SCREW
2		9722101349	2	COVER
3	*	NSS	2	SHIM
4	@	NSS	2	O-RING
5		9722101025	2	SPACER
6		9722101024	2	BEARING ASSEMBLY INCLUDES CUP AND CONE
7		9722101021	1	RING, RETAINING
8	@	NSS	1	SEAL, SHAFT
9		9722101022	6	SCREW
10	#	NS	1	NOT SERVICED HOUSING
11	@	NSS	1	GASKET
12		9722101026	1	SPRING
13		9722101027	1	SEAT
14		9722101028	1	SEAT
15		9722101029	1	PIN, ROLL
16		9722101030	1	BEARING ASSEMBLY INCLUDES CUP AND CONE
17		9722101031	1	YOKE
18	-	NSS	1	PISTON
19	-	NSS	1	ROD
20	@	NSS	1	O-RING
21		9722101350	1	SHAFT
22		NSS	9	PISTON & SHOE
23		NSS	1	PLATE, SHOE
24		NSS	1	WASHER, SPHERICAL
25		NSS	1	RETAINER, PIN

* REPAIR KIT AND/OR PART OF KIT
SERVICED AS AN ASSEMBLY ONLY

@ SECOND REPAIR KIT AND/OR PART OF 2ND KIT
- THIRD REPAIR KIT AND/OR PART OF 3RD KIT

Manitowoc Crane Group

Description

PUMP ASSEMBLY - PISTON COMPLETE ASSEMBLY

Assembly No.

7722000218

Revision:

Item	FN	Part	Qty	Description
26		NSS	3	PIN
27		NSS	1	BLOCK, CYLINDER
28		NSS	1	WASHER, SPRING
29		NSS	1	SPRING
30		NSS	1	WASHER, SPRING
31		NSS	1	RING, SNAP
32	<	NSS	1	SPACER
33		9722101036	1	PLATE, WAFER
34		9722101037	1	BEARING ASSEMBLY INCLUDES CUP AND CONE
35		9722101038	2	PIN
36		9722101039	1	PIN
37		9722101042	1	SEAT
38		9722101041	1	VALVE
39		9722101040	1	SPRING
40		9722101043	1	BLOCK, VALVE
41		9926102726	1	PLUG
42		9926103040	1	PLUG
43	@	NSS	1	O-RING
44		9722101750	1	PLUG
45	@	NSS	1	O-RING
46		9722101754	1	SET SCREW
47		9722101753	1	SEAT
48		9722101752	1	SPRING
49		9722101751	1	SEAT
50		9722101056	1	SPOOL
51		9722101057	1	ORIFICE
52		9722101044	1	PLUG

< FOURTH REPAIR KIT AND/OR PART OF 4TH KIT

@ SECOND REPAIR KIT AND/OR PART OF 2ND KIT

Manitowoc Crane Group

Description

PUMP ASSEMBLY - PISTON COMPLETE ASSEMBLY

Assembly No.

7722000218

Revision:

Item	FN	Part	Qty	Description
53		9722101058	1	PLUG
54	@	NSS	1	GASKET
55	@	NSS	1	O-RING
56		9722101044	2	PLUG
57	#	NS	1	NOT SERVICED BODY
58	@	NSS	1	O-RING
59		9722101352	1	PLUG
60		9722101046	4	SCREW
61		9722101047	1	SPOOL
62		9722101048	1	SEAT
63		9722101049	1	SPRING
64	@	NSS	1	O-RING
65		9722101050	1	PLUG, ADJUSTING
66		9722101059	0	GROUP ASSEMBLY, ROTATING INCLUDES NBR 22-31
66		9722101755	0	COMPENSATOR ASSEMBLY INCLUDES NBR 44-65
66	*	9722101347	0	KIT, SHIM
66	@	9722101061	0	PISTON PUMP REPAIR KIT
66	-	9722101060	0	KIT, COMPENSATOR PISTON AND ROD ASSEMBLY
66	<	9722101035	0	KIT, BEARING AND SPACER

@ SECOND REPAIR KIT AND/OR PART OF 2ND KIT

* REPAIR KIT AND/OR PART OF KIT

< FOURTH REPAIR KIT AND/OR PART OF 4TH KIT

SERVICED AS AN ASSEMBLY ONLY

- THIRD REPAIR KIT AND/OR PART OF 3RD KIT

Manitowoc Crane Group

"C" LOAD ID	WIRE				LENGTH		TP	TP
	NUM	SIZE	TYPE	COLOR	FT-IN	TOT IN		
A	4	16	SXL	YELLOW	6 5	77	A	C
A	16				6 5	77	A	C
A	20A				3 4	40	A	M
	20B				3 3	39	M	Q
A	37				7 4	88	A	G
	51C				1 10	22	D	E
	51D				1 0	12	E	E
	51F				6 7	79	F	G
	51H				1 8	20	H	M
	51K				1 2	14	P	R
	51M				1 0	12	C	C
	51N				1 0	12	C	C
	51P				0 9	9	C	C
A	60				4 5	53	A	K
	61				0 6	6	S	T
A	62				4 5	53	A	K
A	63				3 3	39	A	L
A	111				2 3	27	A	E
A	115				3 9	45	A	F
A	120				2 3	27	A	E
C	163				0 9	9	C	C
A	164A				6 5	77	A	C
	164B				1 0	12	C	C
	164C				4 10	58	C	R
A	168				4 0	48	A	N
A	198				1 5	17	A	D
C	205				3 10	46	C	J
A	278				7 4	88	A	G
C	295	16	SXL	YELLOW	3 10	46	C	J
	5A	14	SXL	YELLOW	0 6	6	L	L
A	9				3 3	39	A	L
A	51A				1 9	21	A	B
	51B				2 8	32	B	D
	51E				5 0	60	B	F
	51J				2 5	29	H	P
	51L				4 9	57	C	H
A	72A				6 5	77	A	C
	72B				1 0	12	C	C
	116				4 8	56	C	P
A	158				2 3	27	A	E
C	172A				0 9	9	C	C
	172B				3 8	44	C	K
	172C				3 11	47	K	N
C	206				3 5	41	C	K
A	AD				0 6	6	A	A
A	AE				0 6	6	A	A
A	AG	14	SXL	YELLOW	0 6	6	A	A
	5B	10	SXL	YELLOW	1 2	14	L	N

NOTES:

BACKFILL ALL FEMALE FASTONS ITEM #11,
#12 & # 3 WITH NYCGEL IN ACCORDANCE
WITH MPS OT-026.

CAVITY WIRES AD,AE, & AG SHOULD BE TAPED & STOWED.

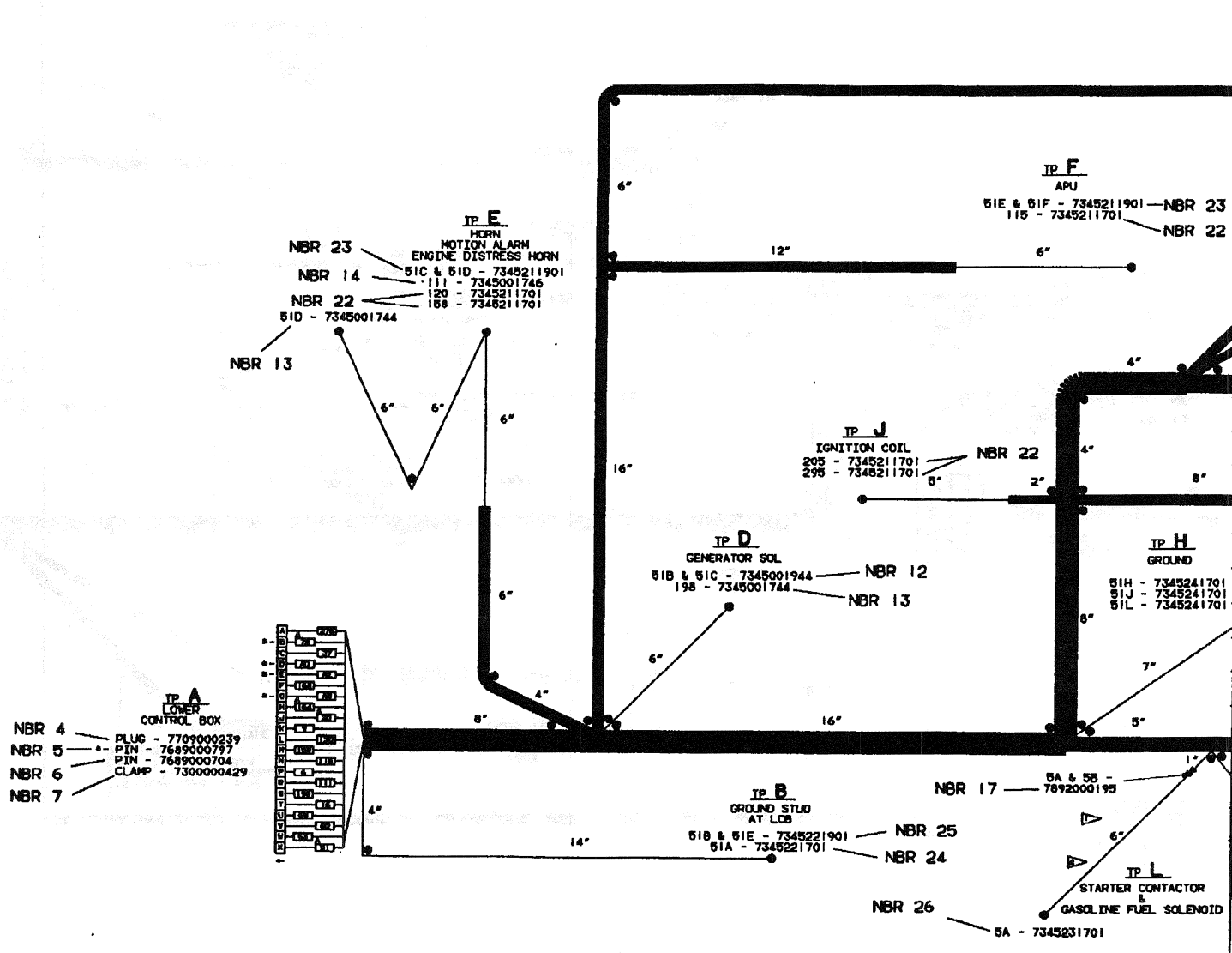


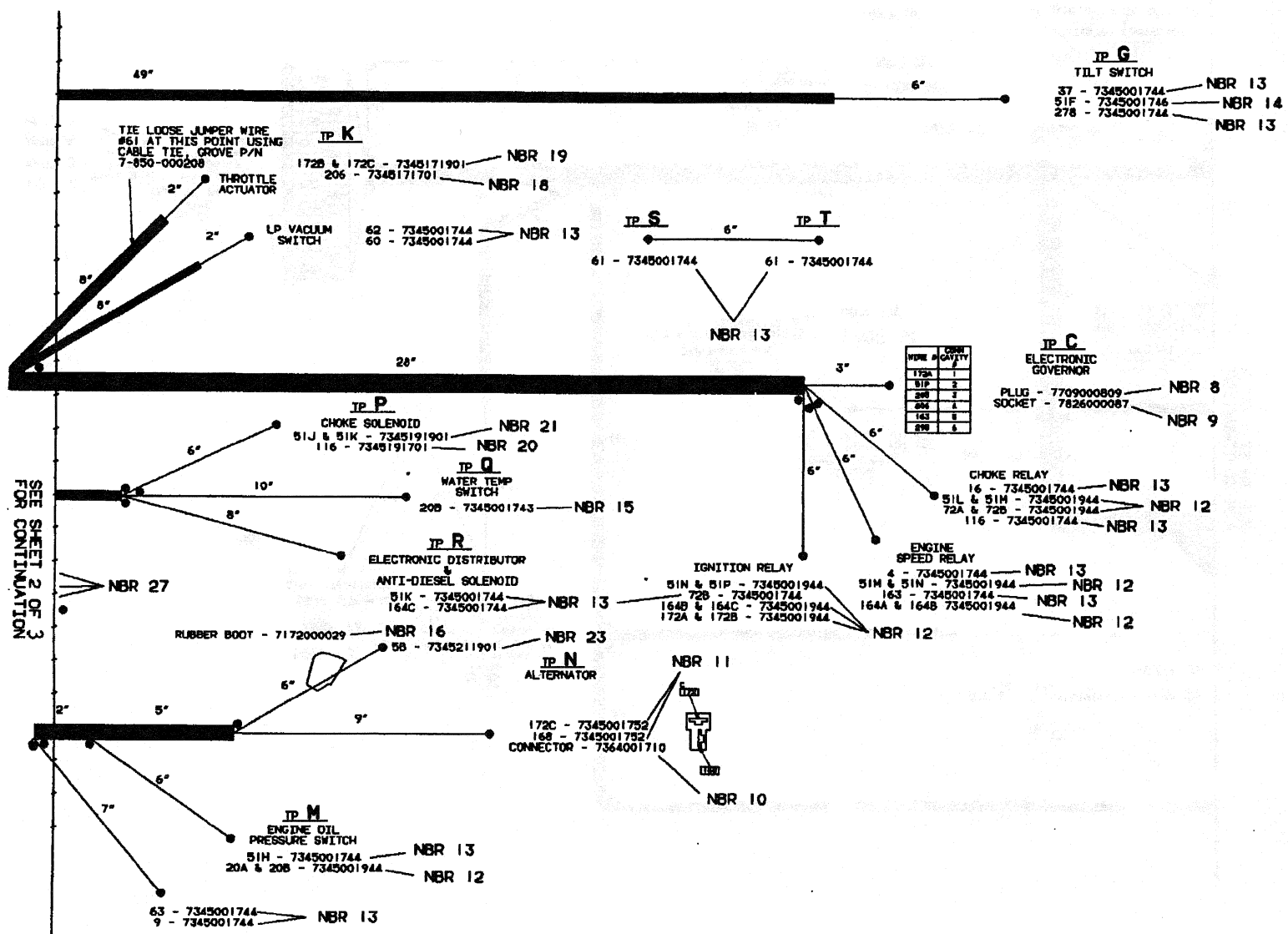
COVER SPLICE WITH HEAT SHRINK TUBING-1/2" ID.
GROVE P/N 8-594-100257 TO PREVENT ANY SHORT
CIRCUITS.AS PER MPS OT-017



STAMP AS "14 GA FUSIBLE LINK".

SEE SHEET 1 OF 3
FOR CONTINUATION





Manitowoc Crane Group

Description
HARNES ASSEMBLY - ENGINE

Assembly No.
6512002038
Revision: #

Item	FN	Part	Qty	Description
4		7709000239	1	PLUG 21 PIN
5		7689000797	4	PIN 12 AWG
6		7689000704	17	PIN 14 - 16 AWG
7		7300000429	1	CLAMP, STRAIN RELIEF
8		7709000809	1	PLUG 6 SOCKET
9		7826000087	6	SOCKET, 16-14 GA
10		7364001710	1	CONNECTOR
11		7345001752	2	TERMINAL 16 - 14 AWG
12		7345001944	9	TERMINAL, FEMALE 12 - 10 AWG
13		7345001744	18	TERMINAL, FEMALE 16 - 14 AWG
14		7345001746	2	TERMINAL, MALE 16 - 14 AWG
15		7345001743	1	TERMINAL, FEMALE 16 - 14 AWG
16		7172000029	1	BOOT, RUBBER
17		7892000195	1	PARALLEL, NON - INSULATED 12 - 10 AWG
18		7345171701	1	TERMINAL 16 - 14 AWG
19		7345171901	1	TERMINAL 12 - 10 AWG
20		7345191701	1	TERMINAL 16 - 14 AWG
21		7345191901	1	TERMINAL 12 - 10 AWG
22		7345211701	5	TONGUE, INSULATED RING
23		7345211901	3	TERMINAL 12 - 10 AWG
24		7345221701	1	TERMINAL 16 - 14 AWG
25		7345221901	1	TERMINAL 12 - 10 AWG

Manitowoc Crane Group

Description

HARNESS ASSEMBLY - ENGINE

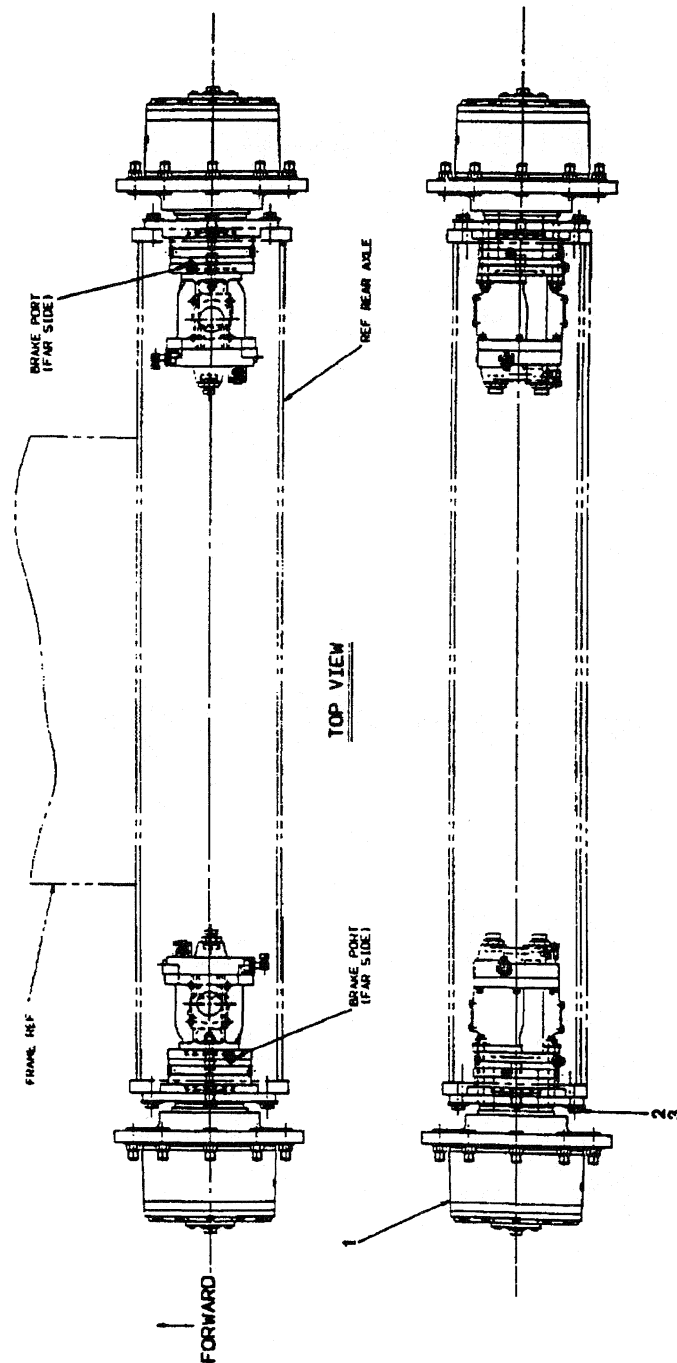
Assembly No.

6512002038

Revision: #

Item	FN	Part	Qty	Description
26		7345231701	1	TERMINAL 16 - 14 AWG
27		7345241701	3	TONGUE, INSULATED RING

Notes



Manitowoc Crane Group

Description

DRIVE INSTALLATION - REAR

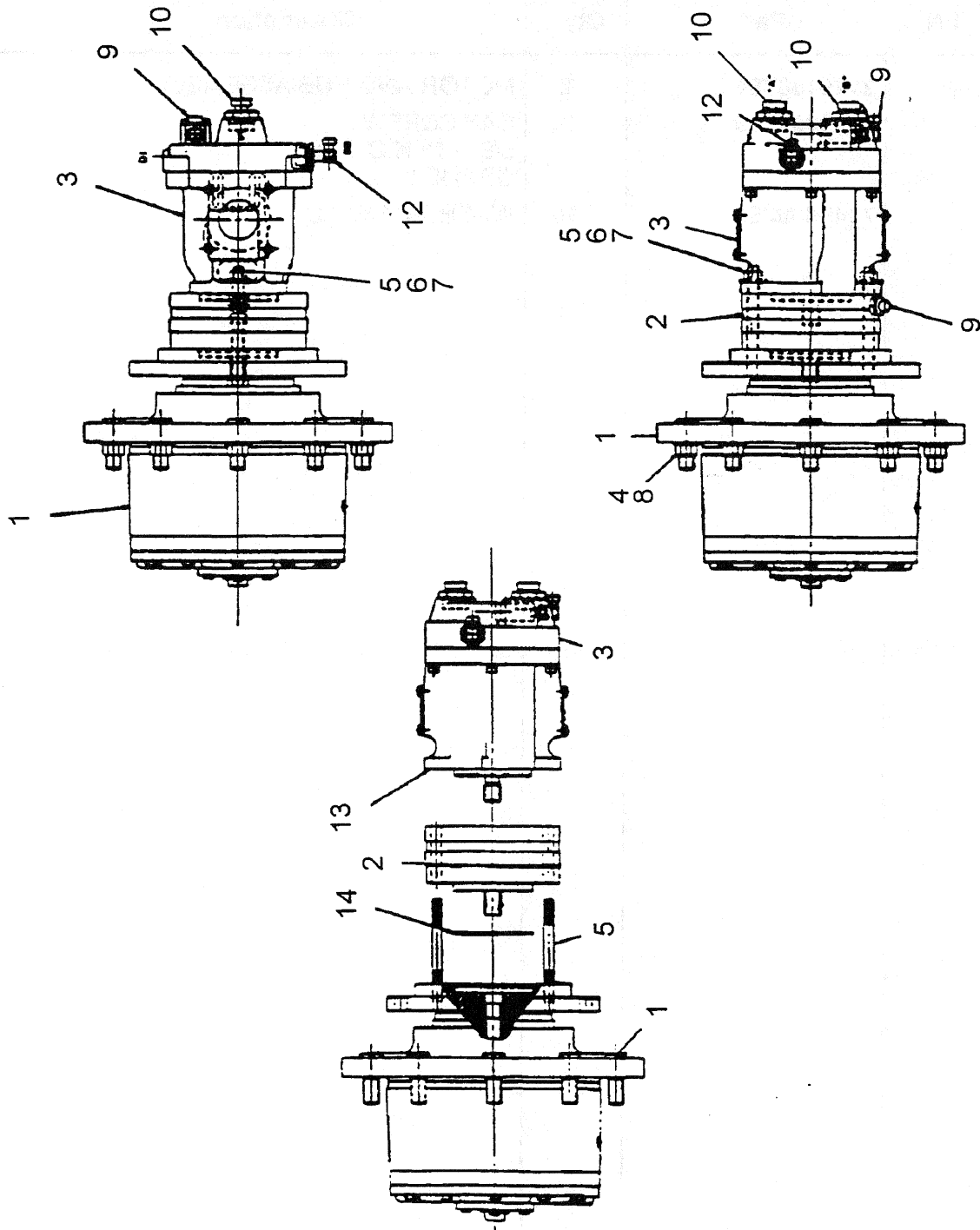
Assembly No.

2145100780

Revision: **A**

Item	FN	Part	Qty	Description
1	+	2145100784	2	MOTOR AND HUB ASSEMBLY
2		7118201650	16	CAP SCREW 5/8" - 11 N.C. X 2" GRADE 8
3		7949000259	16	WASHER, 5/8" I.D.

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Crane Group

Description

MOTOR AND HUB ASSEMBLY

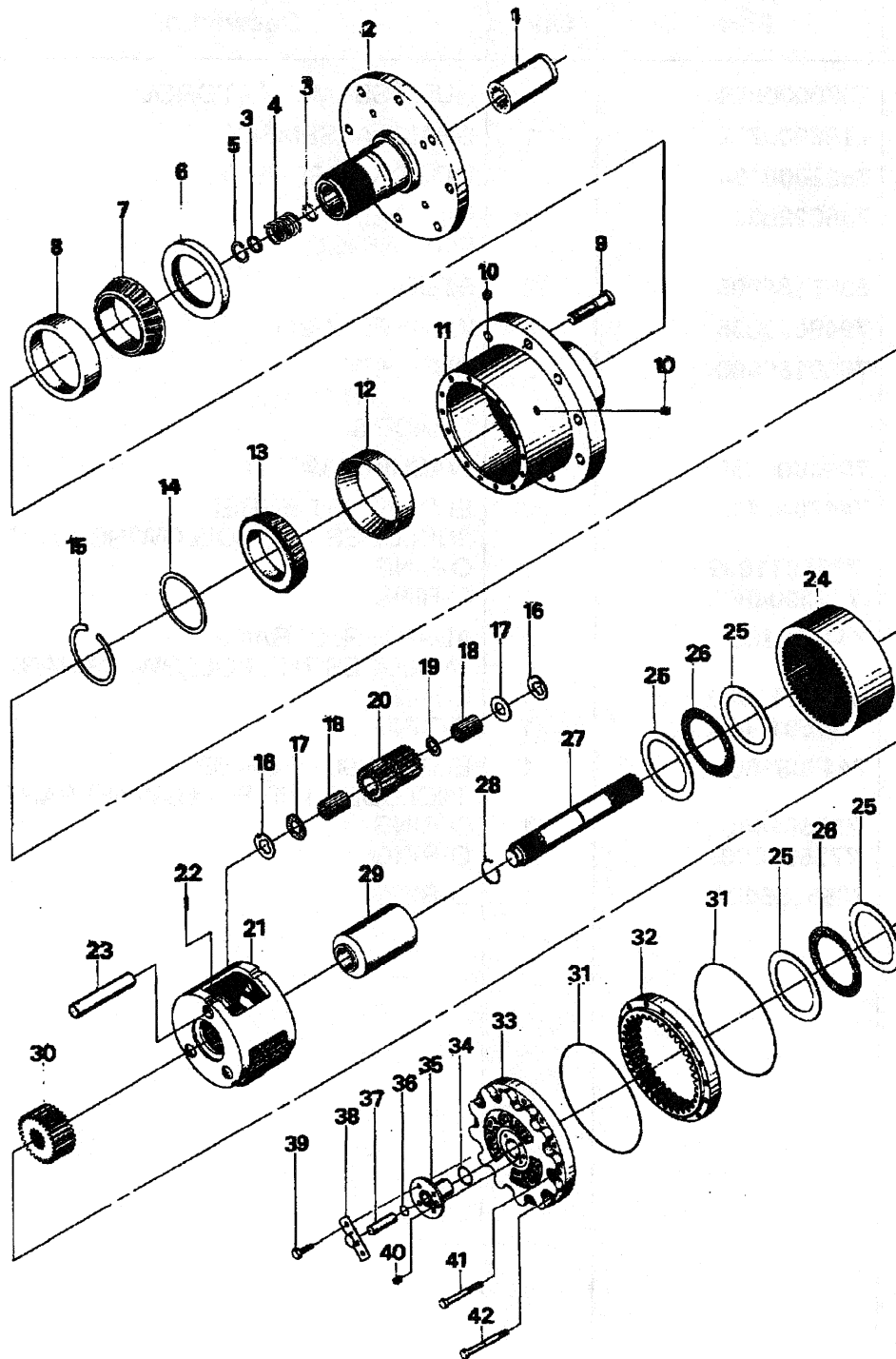
Assembly No.

2145100784

Revision: **B**

Item	FN	Part	Qty	Description
1	+	7970000994	1	HUB ASSEMBLY - TORQUE
2	+	7188000702	1	BRAKE ASSEMBLY
3	+	7632000134	1	MOTOR ASSEMBLY
4		7660220031	10	NUT, HEX 3/32" -56 N.C.
5		6865184205	2	STUD
6		7949000235	2	WASHER, 1/2" I.D.
7		7660180008	2	NUT, HEX 1/2" - 13 N.C. GRADE 8
8		7949000236	10	WASHER, 3/4" I.D.
9		7447040403	2	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
10		7447081601	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755916002	1	O-RING
12		7447081003	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755910002	1	O-RING
14		7755155002	1	O-RING

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Crane Group

Description

HUB ASSEMBLY - TORQUE

Assembly No.

7970000994

Revision:

Item	FN	Part	Qty	Description
1		9734100347	1	COUPLING
2		9734100567	1	SPINDLE
3		9734100341	2	WASHER
4		9734100342	1	SPRING
5		9734100343	1	RING, RETAINING
6		9734100319	1	SEAL
7		9734100321	1	CONE, BEARING
8		9734100320	1	CUP, BEARING
9		9734100499	10	STUD
10		9734100327	2	PLUG, PIPE
11		9734100568	1	HUB
12		9734100322	1	CUP, BEARING
13		9734100323	1	CONE, BEARING
14		9734100325	1	SPACER
15		9734100326	1	RING, RETAINING
16		9734100571	6	WASHER
17		9734100574	6	WASHER
18		9734100333	84	ROLLER
19		9734100572	3	SPACER
20		9734100573	3	GEAR, CLUSTER
21		9734100331	1	CARRIER
22		9734100337	3	PIN
23		9734100335	3	SHAFT
24		9734100569	1	GEAR INTERNAL
25		9734100348	4	WASHER, THRUST
26		9734100349	2	BEARING, THRUST
27		9734100345	1	SHAFT INPUT
28		9734100344	1	RING, RETAINING
29		9734100578	1	SPACER
30		9734100579	1	GEAR INPUT
31		9734100339	2	O-RING
32		9734100338	1	GEAR, RING

Manitowoc Crane Group

Description

HUB ASSEMBLY - TORQUE

Assembly No.

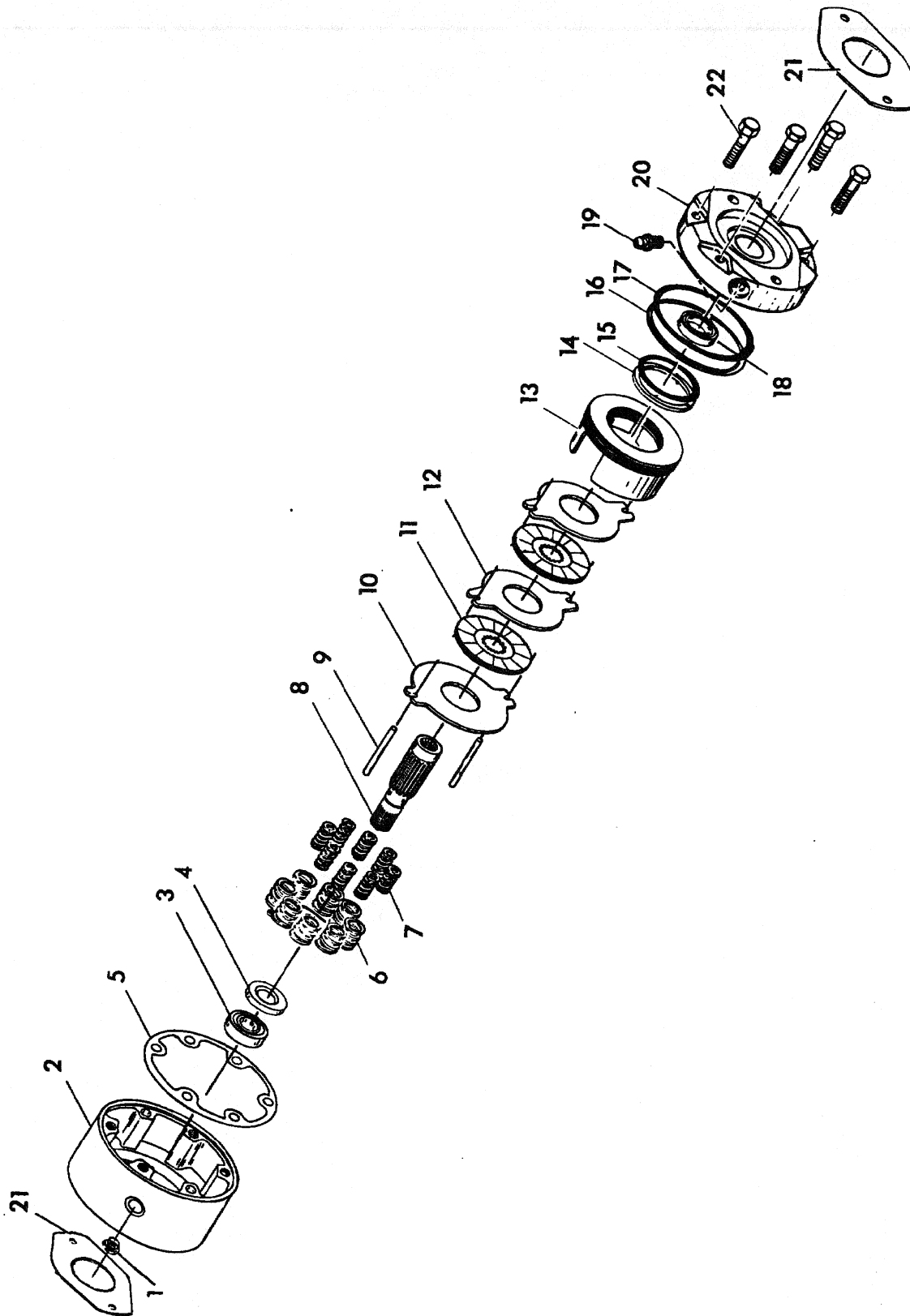
7970000994

Revision:

Item	FN	Part	Qty	Description
33		9734100575	1	COVER
34		9734100517	1	O-RING
35		9734100576	1	CAP
36		9734100516	1	O-RING
37		9734100577	1	ROD
38		9734100514	1	CAP
39		9734100513	4	CAP SCREW 1/4" - 20 N.C. X 3/4" GRADE 5
40		9734100518	1	PLUG, PIPE
41		9734100580	8	CAP SCREW
42		9734100581	4	CAP SCREW GRADE 8
43		9734100570	0	CARRIER ASSEMBLY INCLUDES NBR 16-23

Manitowoc Crane Group

Notes



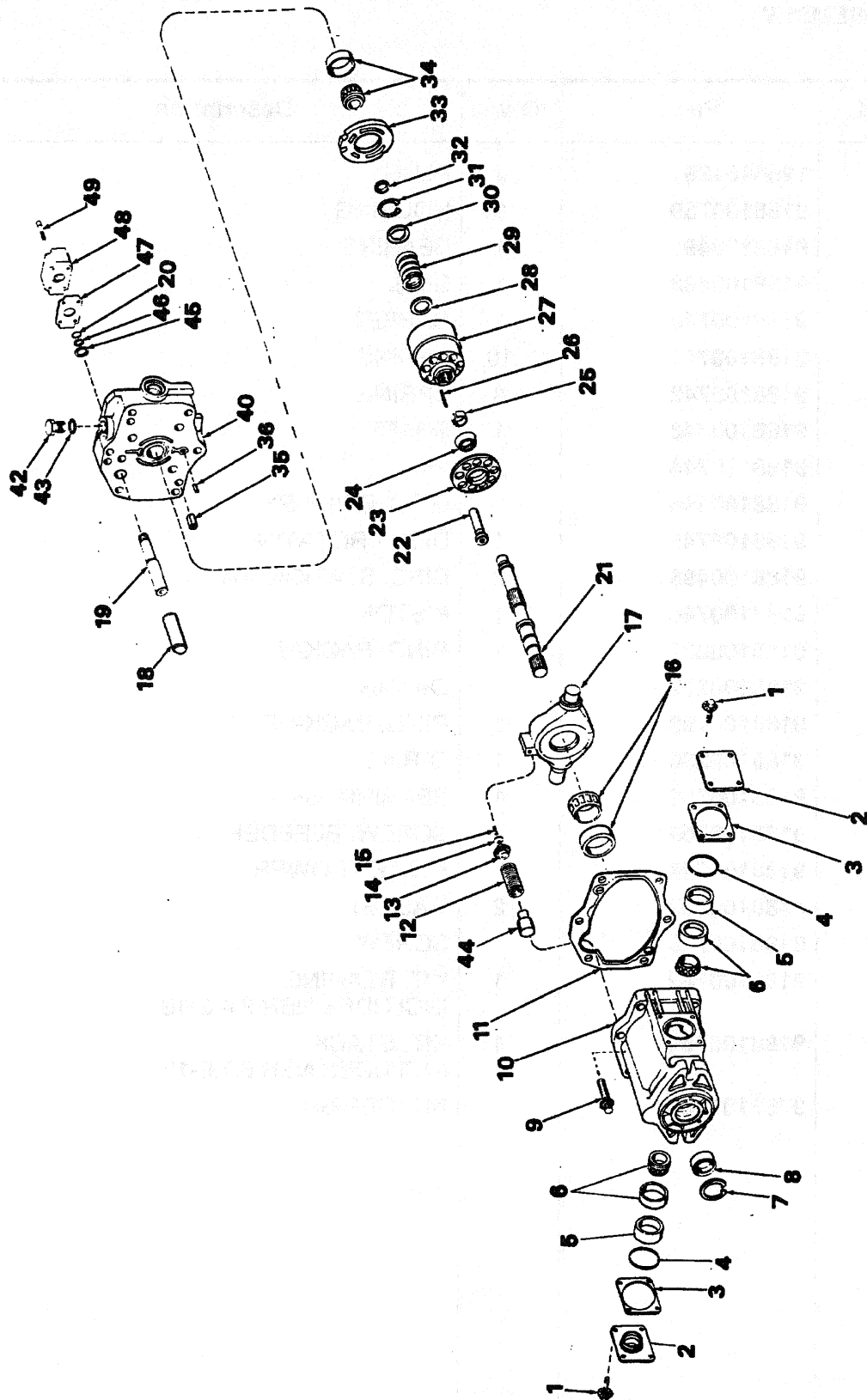
Manitowoc Crane Group

Description
BRAKE ASSEMBLY

Assembly No.
7188000702
Revision:

Item	FN	Part	Qty	Description
1		126010139	4	PLUG
2		9188100739	1	HOUSING
3		9188100491	1	BEARING
4	*	9188100492	1	SEAL
5	*	9188100740	1	GASKET
6		9188100741	10	SPRING
7		9188100742	8	SPRING
8		9188100743	1	SHAFT
9		9188100744	2	PIN
10		9188100496	1	DISC, PRIMARY
11		9188100745	1	DISC - ROTATING
12		9188100498	2	DISC, STATIONARY
13		9188100746	1	PISTON
14	*	9188100201	1	RING, BACK-UP
15	*	9188100202	1	O-RING
16	*	9188100199	1	RING, BACK-UP
17	*	9188100200	1	O-RING
18		9188100309	1	BEARING, BALL
19		9188100203	1	SCREW, BLEEDER
20		9188100747	1	PLATE - POWER
21	*	9188100207	2	GASKET
22		9188100748	4	SCREW
23		9188100749	1	KIT, BEARING INCLUDES NBR 3,4 & 18
23		9188100750	1	KIT, STACK INCLUDES NBR 6,7,9-12
23	*	9752101180	0	KIT, REPAIR

* REPAIR KIT AND/OR PART OF KIT



Manitowoc Crane Group

Description
MOTOR ASSEMBLY

Assembly No.
7632000134
Revision:

Item	FN	Part	Qty	Description
1		9722101348	8	SCREW
2		9722101349	2	COVER
3	*	9632101315	2	SHIM
4	@	9632101312	2	O-RING
5		9722101025	2	SPACER
6		9722101024	2	BEARING ASSEMBLY INCLUDES CUP AND CONE
7		9722101021	1	RING, RETAINING
8	@	9632101311	1	SEAL, SHAFT
9		9722101022	6	SCREW
10		NSS	1	HOUSING HOUSING
11	@	9632101310	1	GASKET
12		9632101306	1	SPRING
13		9632101305	1	SEAT
14		9722101028	1	SEAT
15		9722101029	1	PIN, ROLL
16		9722101030	1	BEARING ASSEMBLY INCLUDES CUP AND CONE
17		9632101031	1	FAN
18		9632101304	1	PISTON
19		9632101297	1	ROD
20	@	9632101313	1	O-RING
21		9722101350	1	SHAFT
22	<	NSS	9	PISTON AND SHOE PISTON & SHOE
23	<	NSS	1	PLATE, SHOE PLATE, SHOE
24	<	NSS	1	WASHER, SPHERICAL WASHER, SPHERICAL
25	<	NSS	1	RETAINER, PIN RETAINER, PIN

* REPAIR KIT AND/OR PART OF KIT
< FOURTH REPAIR KIT AND/OR PART OF 4TH KIT

@ SECOND REPAIR KIT AND/OR PART OF 2ND KIT

Manitowoc Crane Group

Description
MOTOR ASSEMBLY

Assembly No.
7632000134
Revision:

Item	FN	Part	Qty	Description
26	<	NSS	3	PIN PIN
27	<	NSS	1	BLOCK, CYLINDER BLOCK, CYLINDER
28	<	NSS	1	WASHER, SPRING WASHER, SPRING
29	<	NSS	1	SPRING SPRING
30	<	NSS	1	WASHER, SPRING WASHER, SPRING
31	<	NSS	1	RING, SNAP RING, SNAP
32	-	NSS	1	SPACER
33		9632101301	1	PLATE
34		9722101037	1	BEARING ASSEMBLY INCLUDES CUP AND CONE
35		9722101038	2	PIN
36		9722101039	1	PIN
40		9632101303	1	BLOCK, VALVE
42		9926103040	1	PLUG
43	@	9926100635	1	O-RING
44		9632101307	1	STOP
45		9632101300	1	RING, RETAINING
46	@	9926103648	1	RING, BACK-UP
47	@	9632101314	1	GASKET
48		9632101299	1	BLOCK, CONTROL
49		9722101046	1	SCREW
50	<	9632101308	0	ROTATING GROUP KIT INCLUDES NBRS 22 - 31
50	*	9722101347	0	KIT, SHIM
50	@	9632101293	0	KIT, SEAL

< FOURTH REPAIR KIT AND/OR PART OF 4TH KIT
@ SECOND REPAIR KIT AND/OR PART OF 2ND KIT

- THIRD REPAIR KIT AND/OR PART OF 3RD KIT
* REPAIR KIT AND/OR PART OF KIT

Manitowoc Crane Group

Description

MOTOR ASSEMBLY

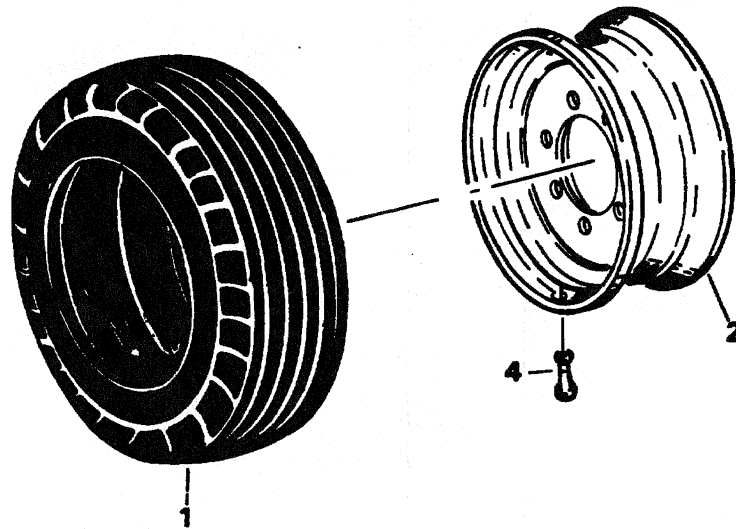
Assembly No.

7632000134

Revision:

Item	FN	Part	Qty	Description
50	-	9722101035	0	KIT, BEARING AND SPACER

- THIRD REPAIR KIT AND/OR PART OF 3RD KIT



Manitowoc Crane Group

Description

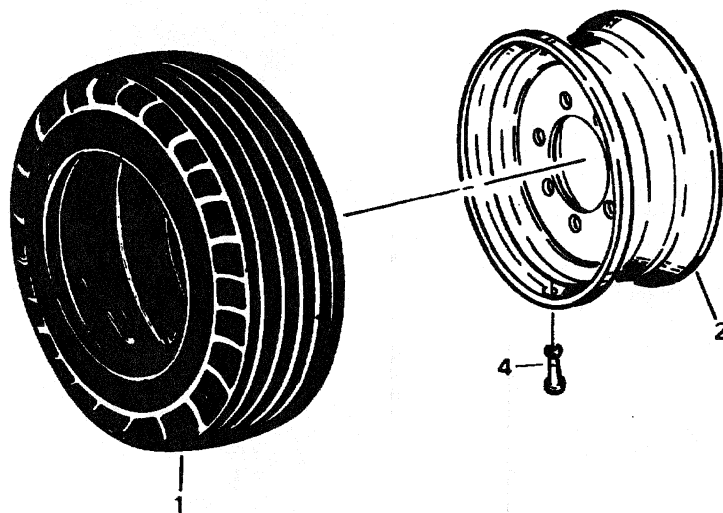
TIRE AND WHEEL ASSEMBLY

Assembly No.

6970001471

Revision: A

Item	FN	Part	Qty	Description
1		7900000356	1	TIRE - GENERAL 15 X 19.5



Manitowoc Crane Group

Description

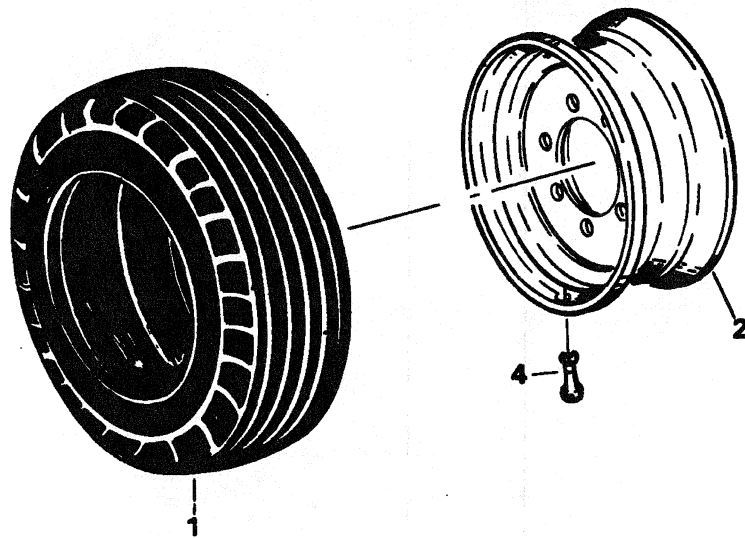
TIRE AND WHEEL ASSEMBLY

Assembly No.

6970001024

Revision: **B**

Item	FN	Part	Qty	Description
1		7900000356	1	TIRE - GENERAL 15 X 19.5



Manitowoc Crane Group

Description

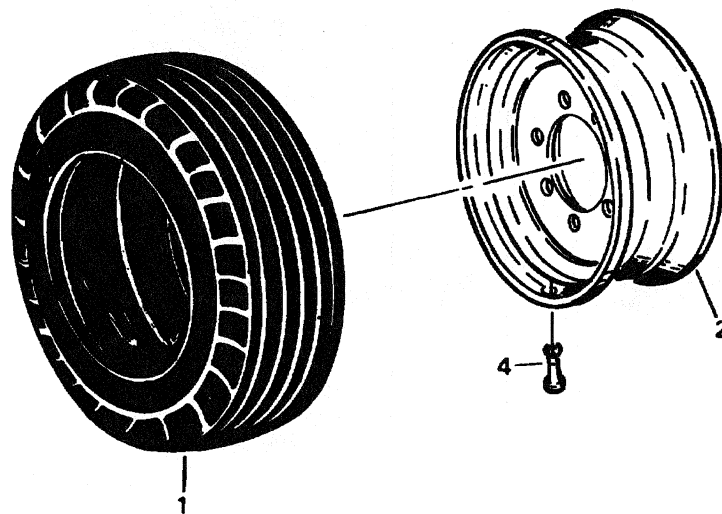
TIRE AND WHEEL ASSEMBLY

Assembly No.

6970001470

Revision: **A**

Item	FN	Part	Qty	Description
1		7900000356	1	TIRE - GENERAL 15 X 19.5



Manitowoc Crane Group

Description

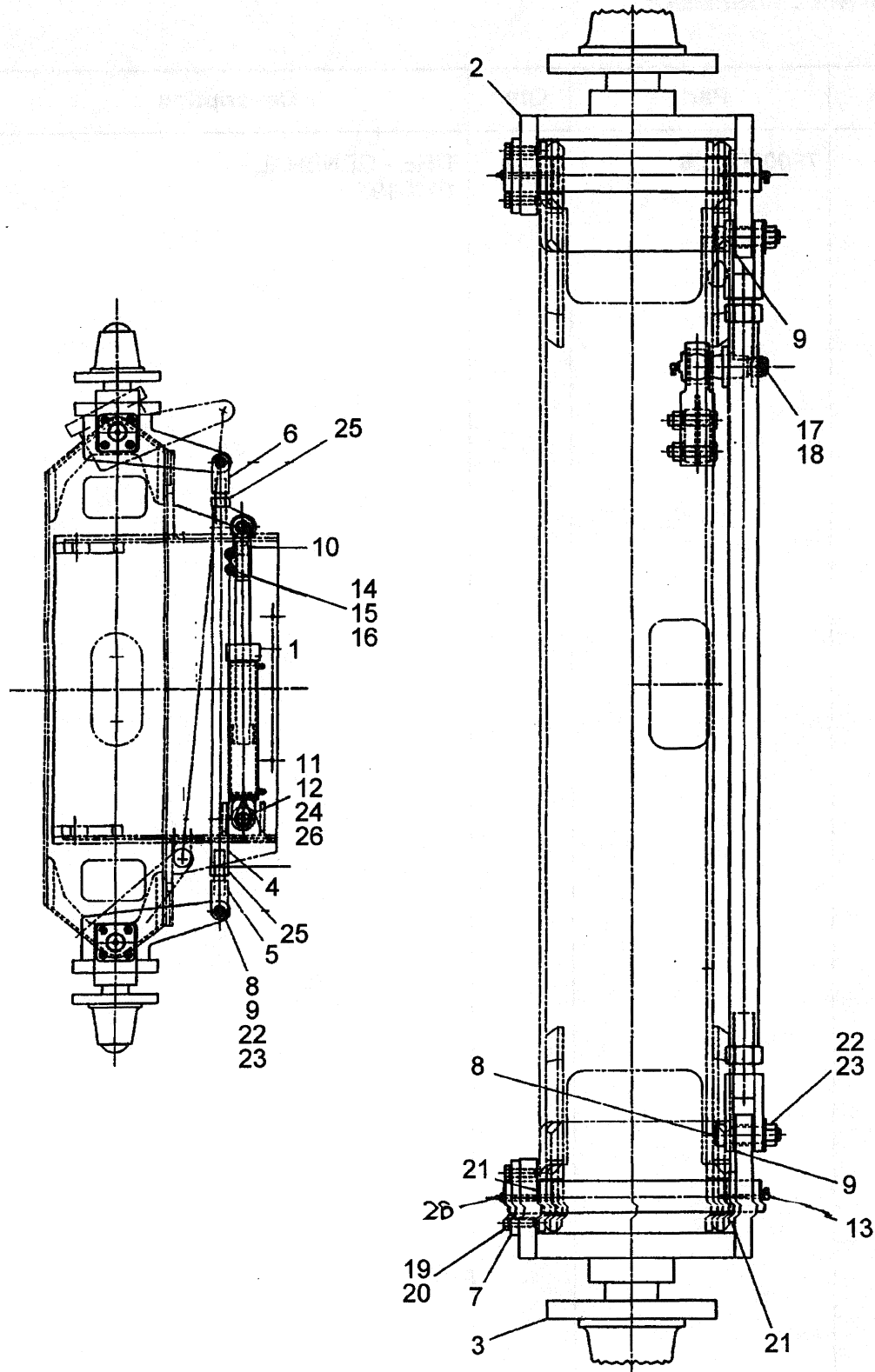
TIRE AND WHEEL ASSEMBLY

Assembly No.

6970001023

Revision: **C**

Item	FN	Part	Qty	Description
1		7900000356	1	TIRE - GENERAL 15 X 19.5



Manitowoc Crane Group

Description

LINKAGE INSTALLATION - FRONT STEER

Assembly No.

2145100832

Revision: **B**

Item	FN	Part	Qty	Description
1	+	6372005805	1	CYLINDER ASSEMBLY - 3" STEER
2	+	2143100017	1	HUB ASSEMBLY - RIGHT HAND
3	+	2143100018	1	HUB ASSEMBLY - LEFT HAND
4		2144100021	1	TIE ROD
5		2144100019	1	LUG (LEFT HAND)
6		2144100018	1	LUG (RIGHT HAND)
7		2144100035	2	PIN
8		7110261806	2	SCREW, SHOULDER 1" - 8 N.C. X 2 1/4" GRADE 1
9		7950260141	2	WASHER, 1" I.D.
10		7069000427	1	SOCKET, VERTICAL (RIGHT HAND) (RIGHT HAND)
11		6810001758	1	SHAFT
12		7115160650	1	CAP SCREW 3/8" - 16 N.C. X 3/4" GRADE 5
13		7440000400	2	FITTING, 90 DEGREE GREASE
14		7115202050	2	CAP SCREW 5/8" - 11 N.C. X 2 1/2" GRADE 5
15		7950200050	2	LOCKWASHER, 5/8" I.D.
16		7660200000	2	NUT, HEX 5/8" - 11 N.C. GRADE 1
17		7660280130	1	NUT, HEX 1 1/8" - 12 N.F.
18		7690083210	1	PIN, COTTER 5/32" X 2"
19		7115181250	8	CAP SCREW 1/2" - 13 N.C. X 1 1/2" GRADE 5
20		7950180141	8	FLATWASHER, 1/2" I.D.

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Crane Group

Description

LINKAGE INSTALLATION - FRONT STEER

Assembly No.

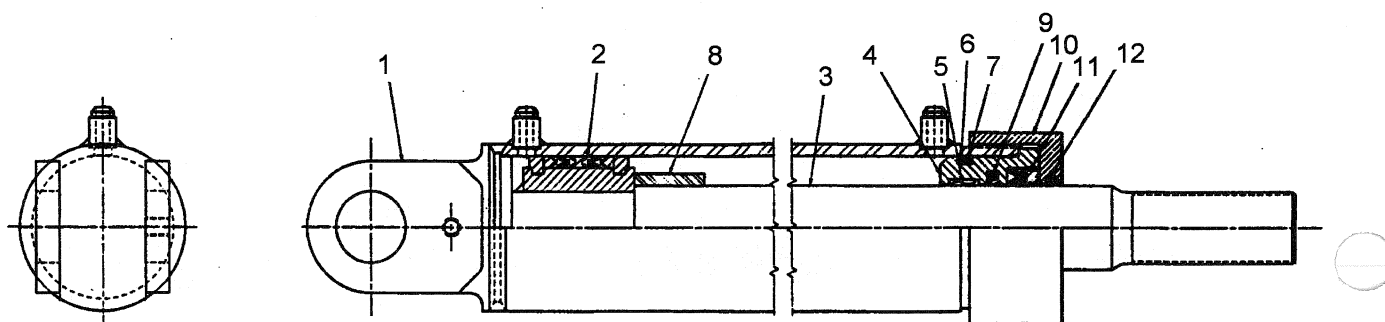
2145100832

Revision: **B**

Item	FN	Part	Qty	Description
21		7199001532	0	BUSHING, BRONZE
22		7660221601	2	LOCKNUT, HEX 3/4" - 10 N.C.
23		7950220141	2	FLATWASHER, 3/4" I.D.
24		7950160050	1	LOCKWASHER, 3/8" I.D.
25		7659000208	2	NUT, JAM
26		7440000000	3	FITTING, 1/8 STRAIGHT GREASE

Manitowoc Crane Group

Notes



Manitowoc Crane Group

Description

CYLINDER ASSEMBLY - 3" STEER

Assembly No.

6372005805

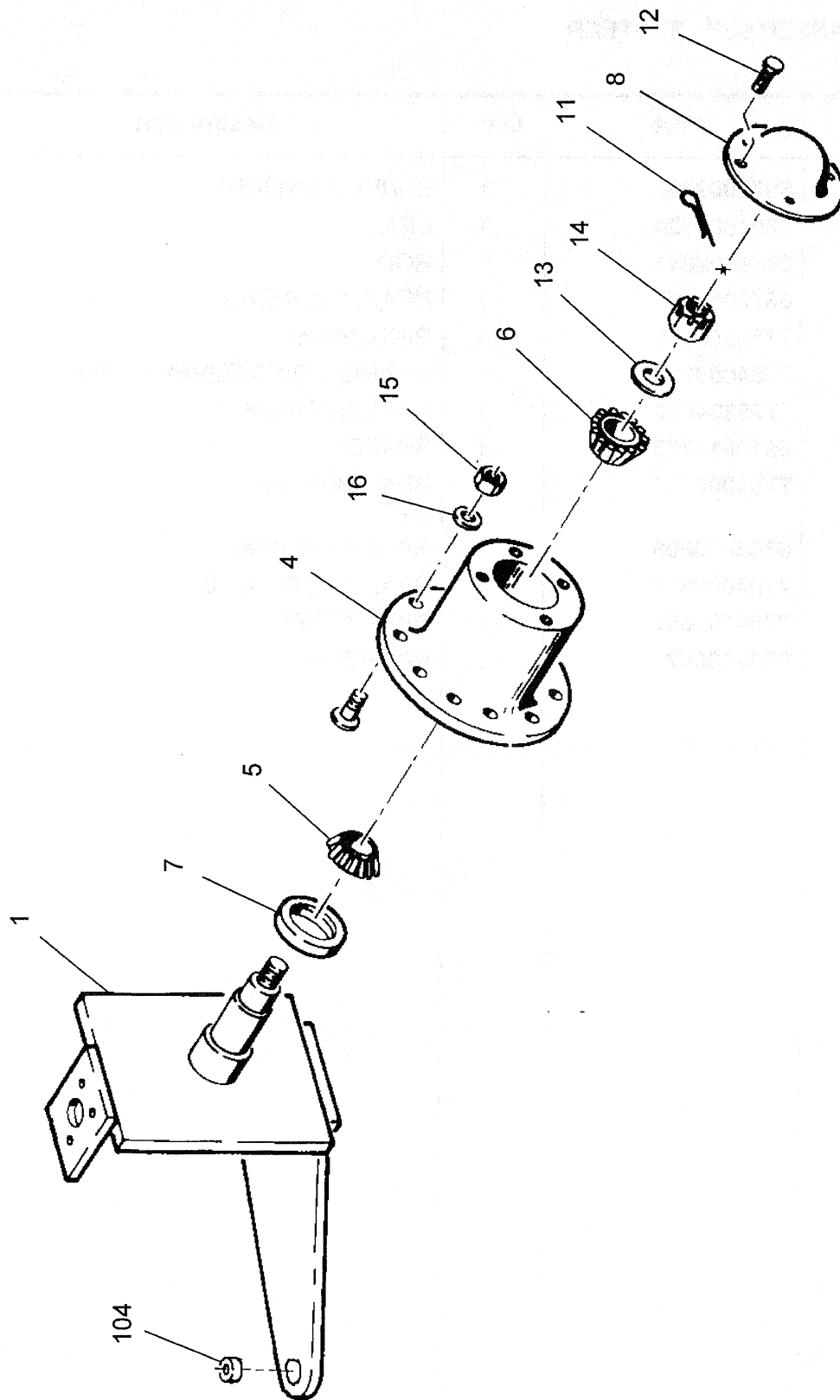
Revision: **A**

Item	FN	Part	Qty	Description
1		6372002828	1	BARREL, CYLINDER
2	*	7794000524	1	SEAL
3		6768002041	1	ROD
4		6372002595	1	HEAD, CYLINDER
5	*	7753000175	1	RING, WEAR
6	*	7754000123	1	O-RING, LOW TEMPERATURE
7	*	7755334609	1	RING, BACK-UP
8		6910016363	1	SPACER
9	*	7794000617	1	SEAL, BUFFER 1.75"
10		6753000805	1	RING, RETAINING
11	*	7794000628	1	SEAL, DEEP Z ROD
12	*	7794000007	1	RING, WIPER
13	*	9752100627	0	KIT, REPAIR

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Crane Group

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Description

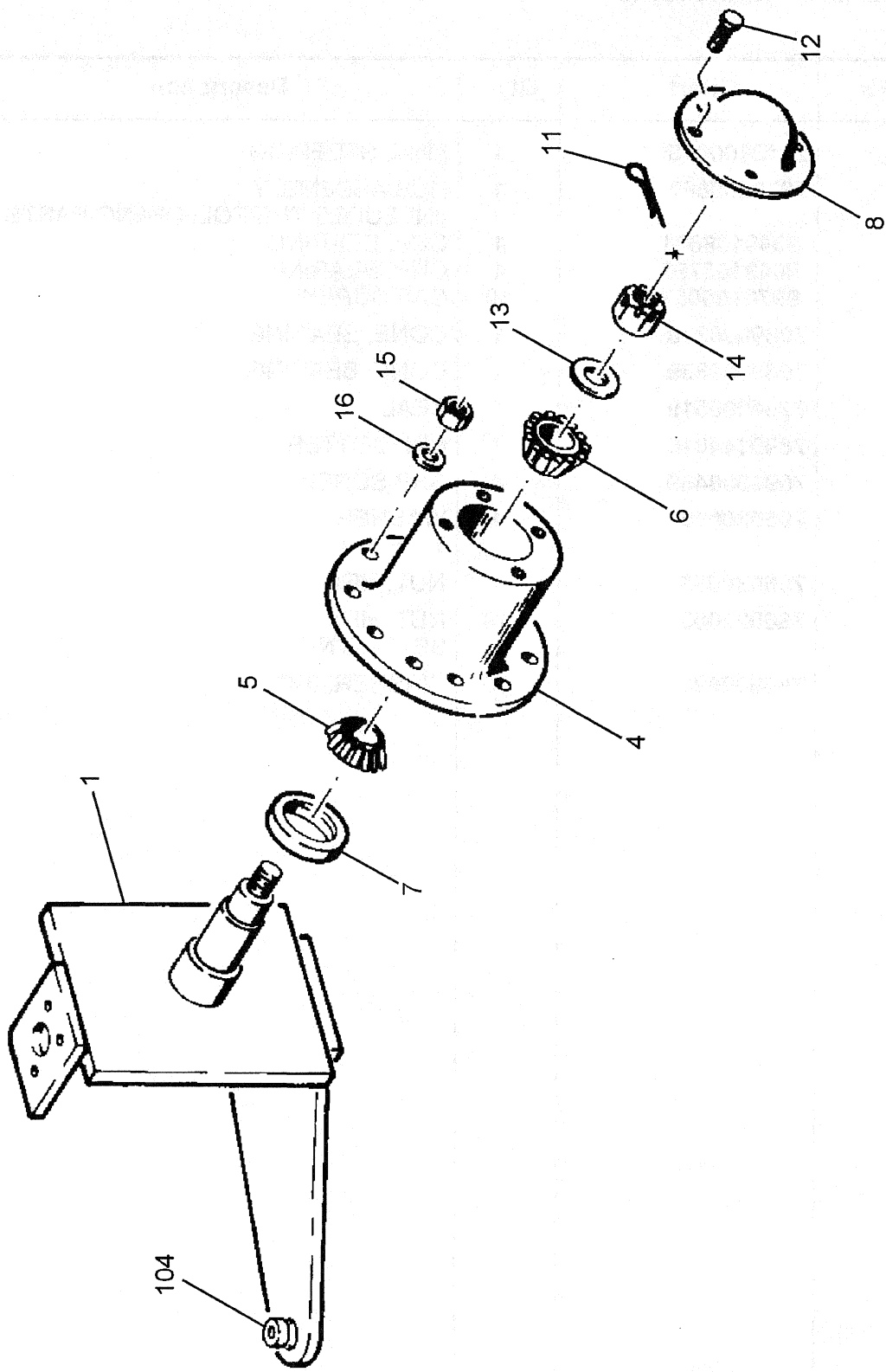
HUB ASSEMBLY - RIGHT HAND

Assembly No.

2143100017

Revision: **F**

Item	FN	Part	Qty	Description
1		2143100015	1	LINK, STEERING
4		7970000867	1	HUB ASSEMBLY
				INCLUDES THE FOLLOWING PARTS
		9049108681	1	CUP, BEARING
		9049103792	1	CUP, BEARING
		9970100057	10	CAP SCREW
5		7069000358	1	CONE, BEARING
6		7069000359	1	CONE, BEARING
7		7794000519	1	SEAL
11		7690144010	1	PIN, COTTER
12		7099000469	4	CAP SCREW
13		7950300161	1	WASHER
				1 1/4" I.D.
14		7660300530	1	NUT, HEX
15		7660220031	10	NUT, HEX
				3/32" -56 N.C.
16		7949000236	10	WASHER, 3/4" I.D.



Manitowoc Crane Group

Description

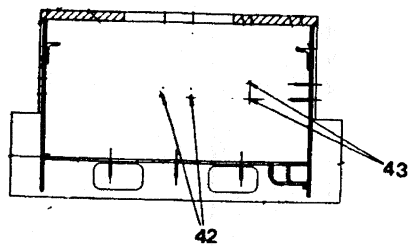
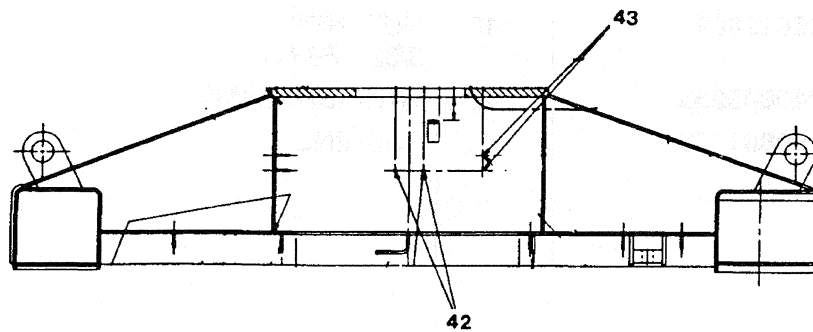
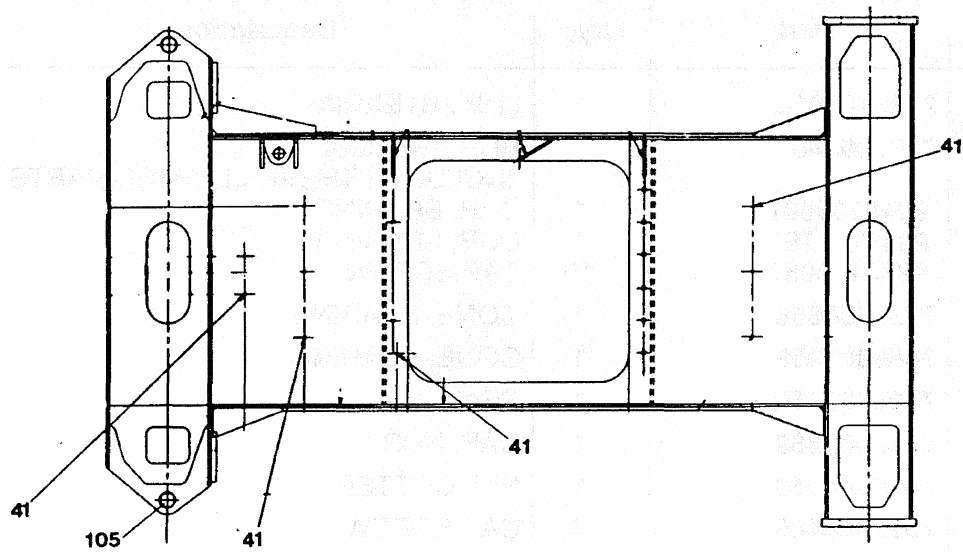
HUB ASSEMBLY - LEFT HAND

Assembly No.

2143100018

Revision: **F**

Item	FN	Part	Qty	Description
1		2143100016	1	LINK, STEERING
4		7970000867	1	HUB ASSEMBLY INCLUDES THE FOLLOWING PARTS
		9049108681	1	CUP, BEARING
		9049103792	1	CUP, BEARING
		9970100057	10	CAP SCREW
5		7069000358	1	CONE, BEARING
6		7069000359	1	CONE, BEARING
7		7794000519	1	SEAL
8		7258000668	1	CAP, HUB
11		7690144010	1	PIN, COTTER
12		7099000469	4	CAP SCREW
13		7950300161	1	WASHER 1 1/4" I.D.
14		7660300530	1	NUT, HEX
15		7660220031	10	NUT, HEX 3/32" -56 N.C.
16		7949000236	10	WASHER, 3/4" I.D.
104		7199001138	1	BUSHING



Manitowoc Crane Group

Description

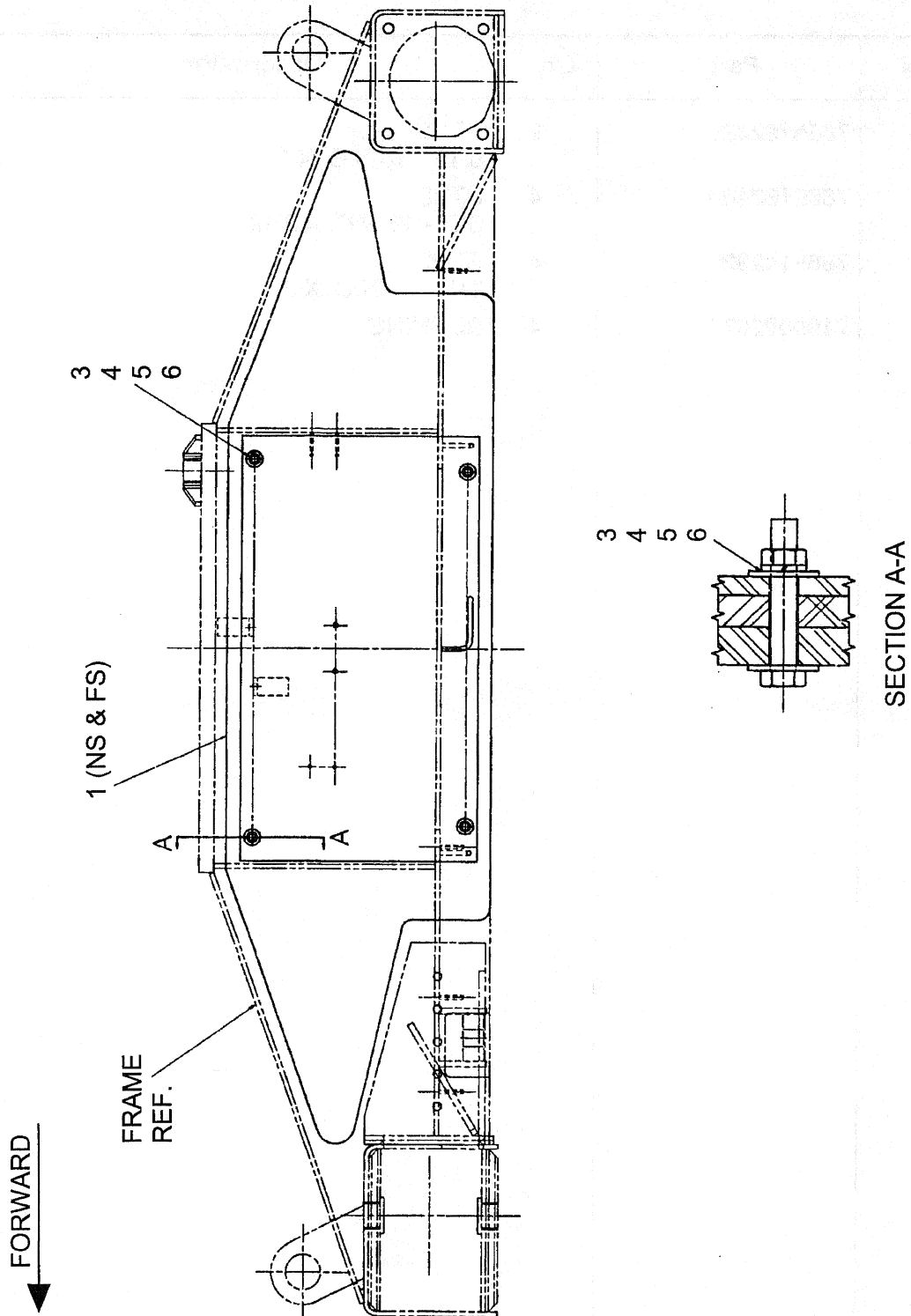
FRAME AND COUNTERWEIGHT INSTALLATION

Assembly No.

2145100808

Revision: A

Item	FN	Part	Qty	Description
41		7866152320	9	STUD 5/16" -18 N.C. X 2"
42		7866162400	4	STUD 3/8" - 16 N.C. X 2 1/2"
43		7866142320	4	STUD 1/4" - 20 N.C. X 2"
105		7199002074	4	BUSHING



Manitowoc Crane Group

Description

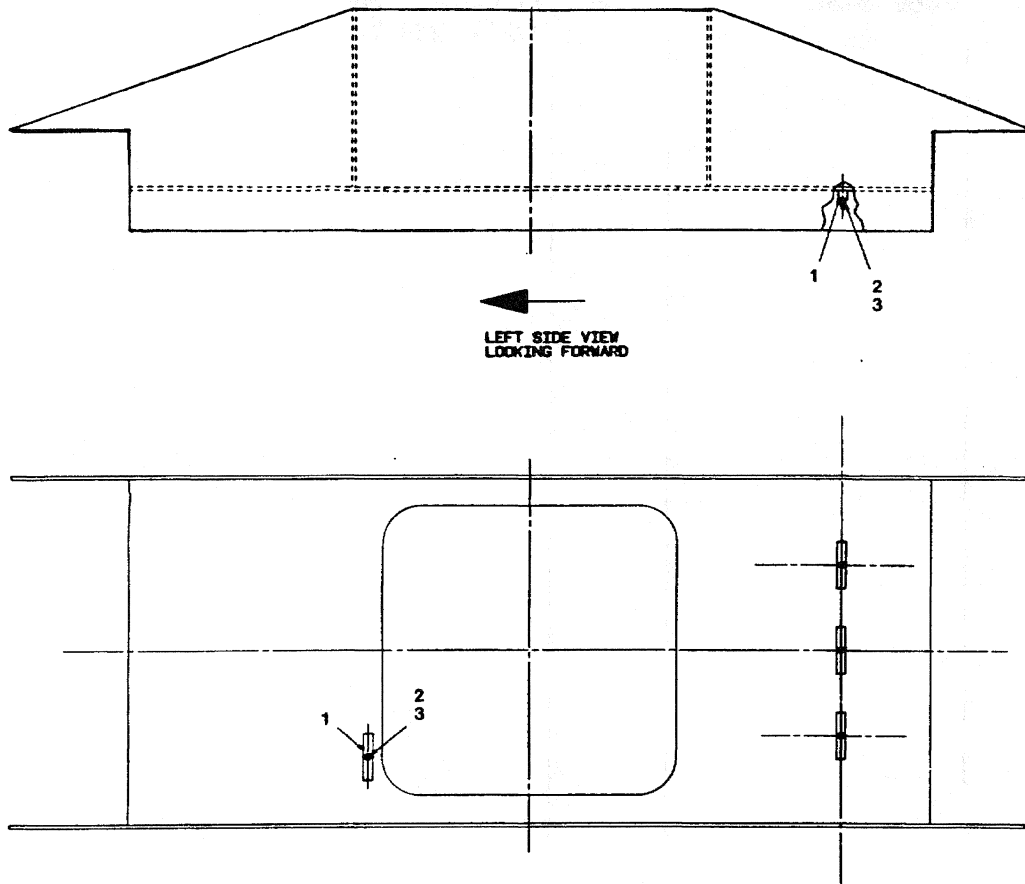
COUNTERWEIGHT INSTALLATION

Assembly No.

2145100819

Revision: **A**

Item	FN	Part	Qty	Description
1		4145100590	2	PLATE, COUNTERWEIGHT
3		7115182650	8	CAP SCREW 1/2" - 13 N.C. X 3 1/4" GRADE 5
4		7950180161	16	FLATWASHER, 1/2" I.D.
6		7660181601	8	LOCKNUT, HEX 1/2" - 13 N.C.



Manitowoc Crane Group

Description

HOSE CLAMP INSTALLATION

Assembly No.

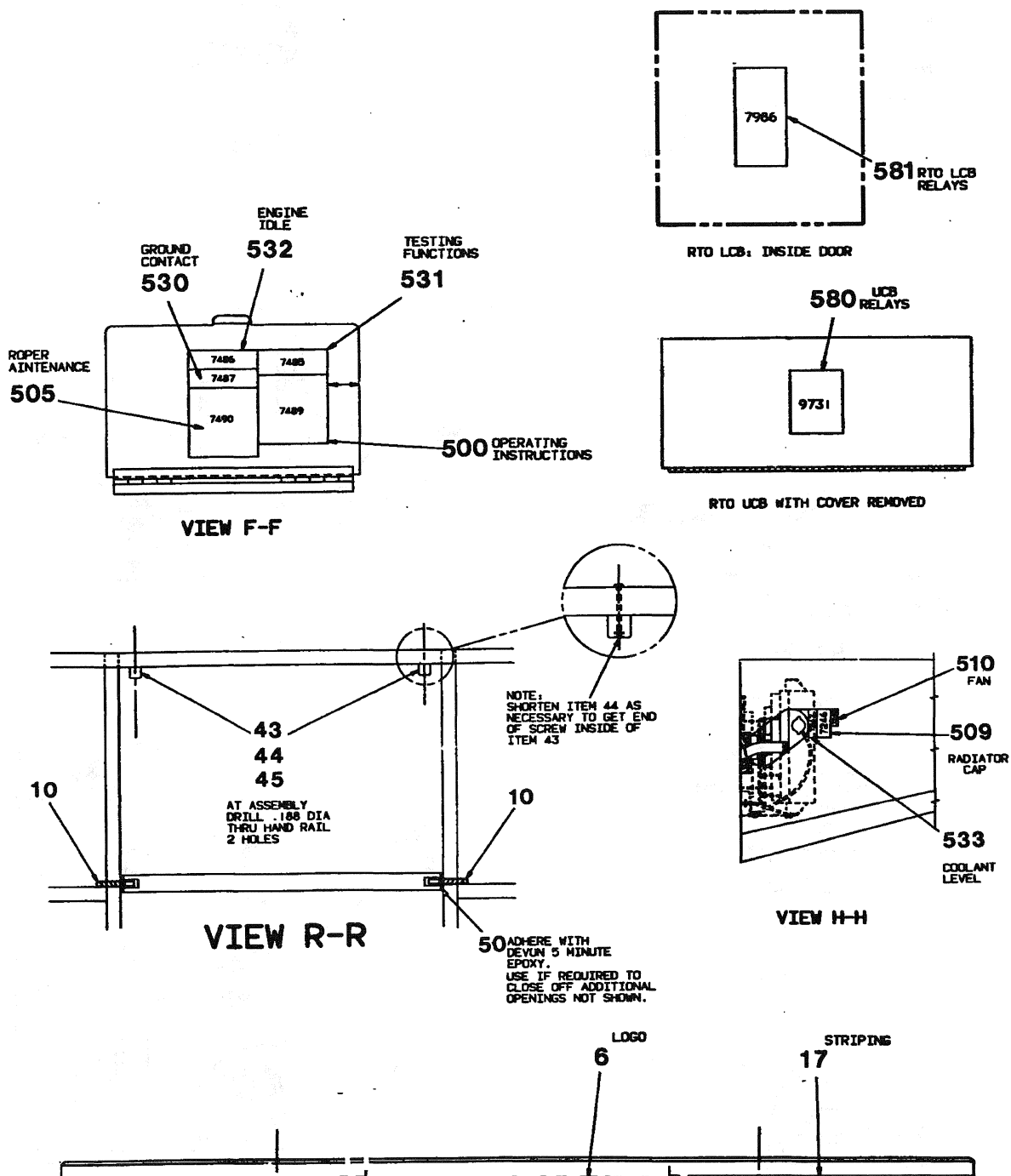
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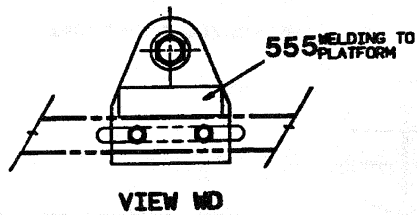
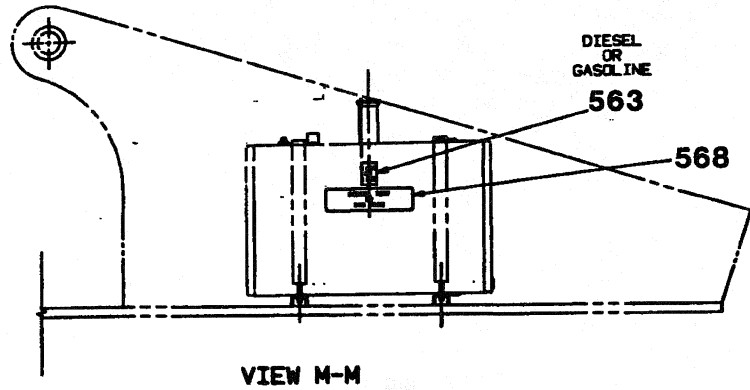
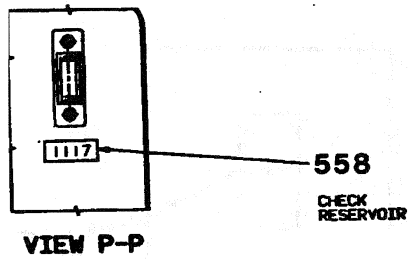
Revision: #

Item	FN	Part	Qty	Description
1		6300000068	4	CLAMP, HOSE
2		7660161601	4	LOCKNUT, HEX 3/8" - 16 N.C. GRADE 5
3		7950160141	4	FLATWASHER, 3/8" I.D.

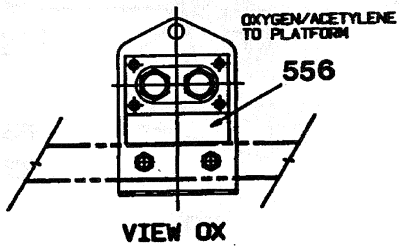
Manitowoc Crane Group

Notes

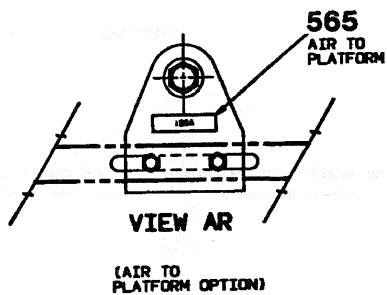




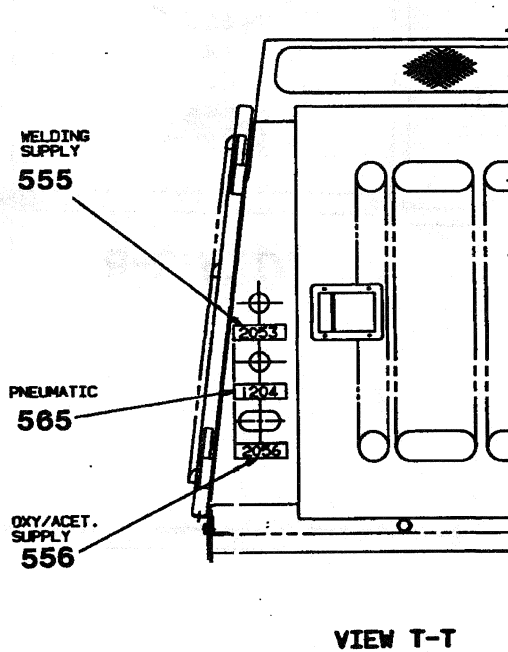
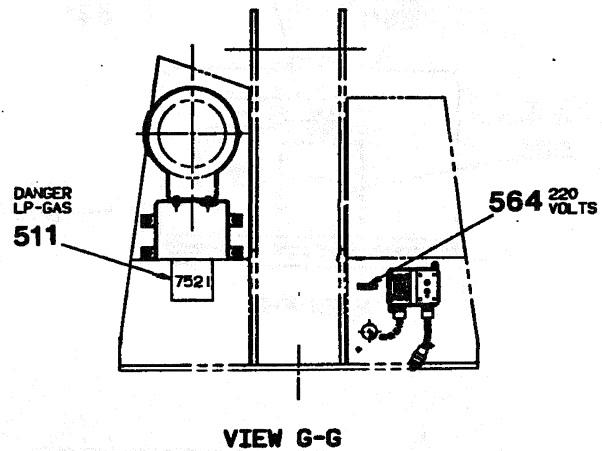
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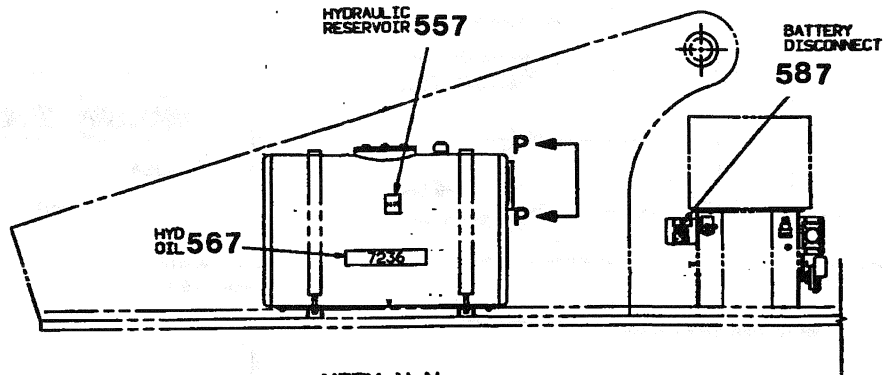
(OXYGEN/ACETYLENE TO PLATFORM OPTION)



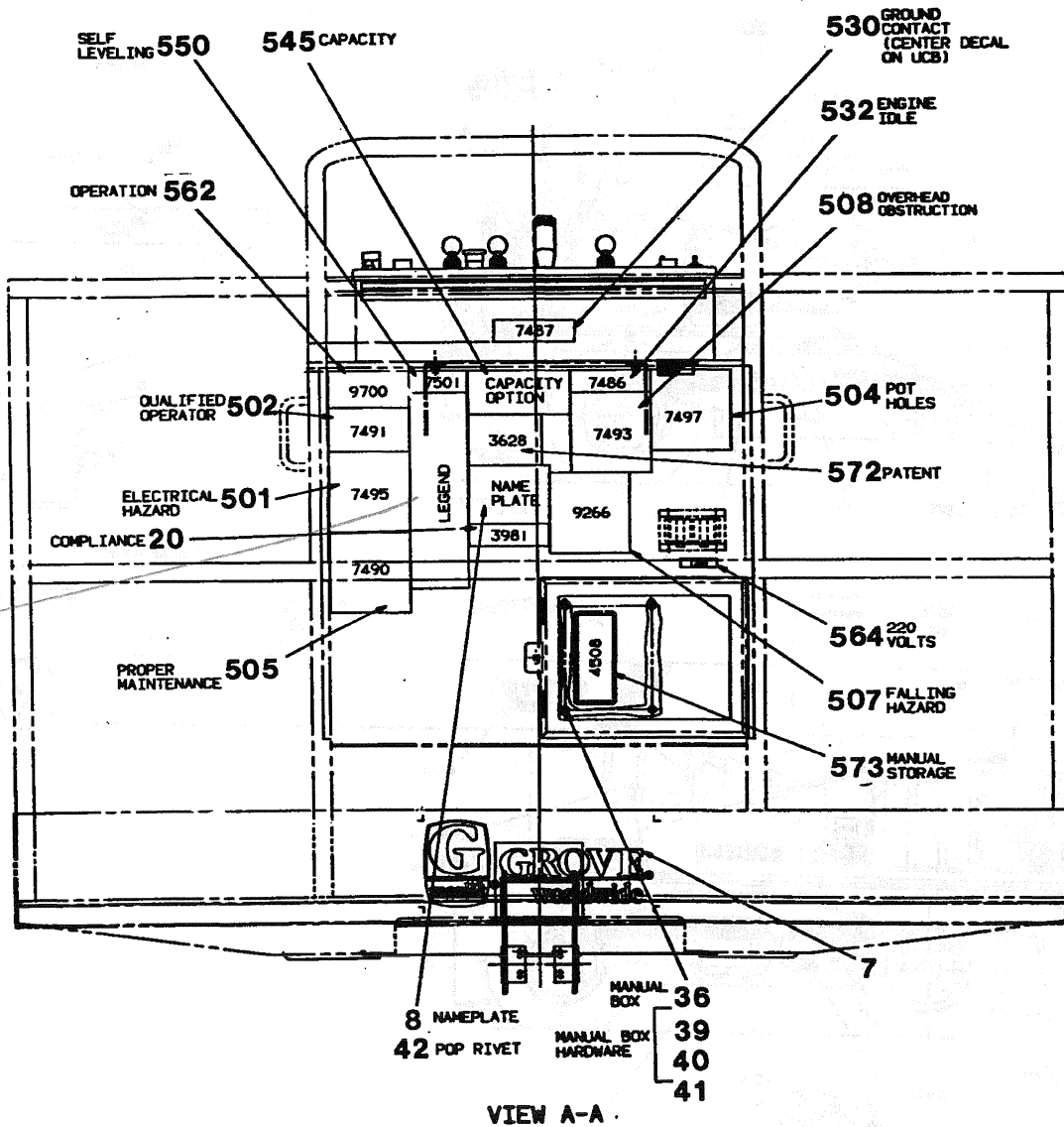
(AIR TO PLATFORM OPTION)



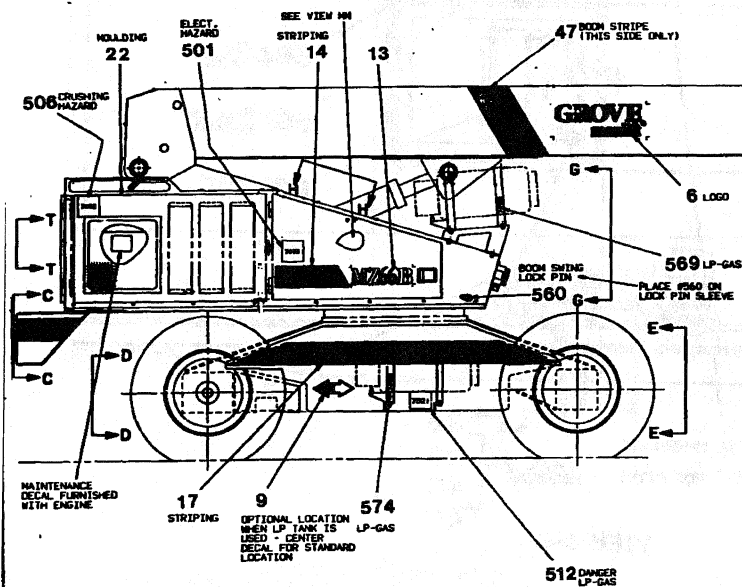
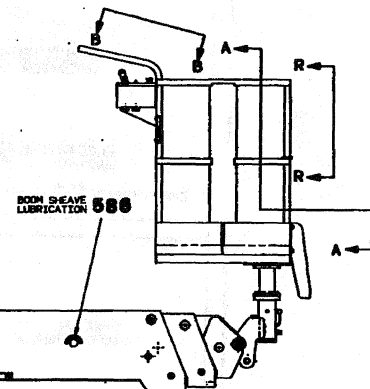
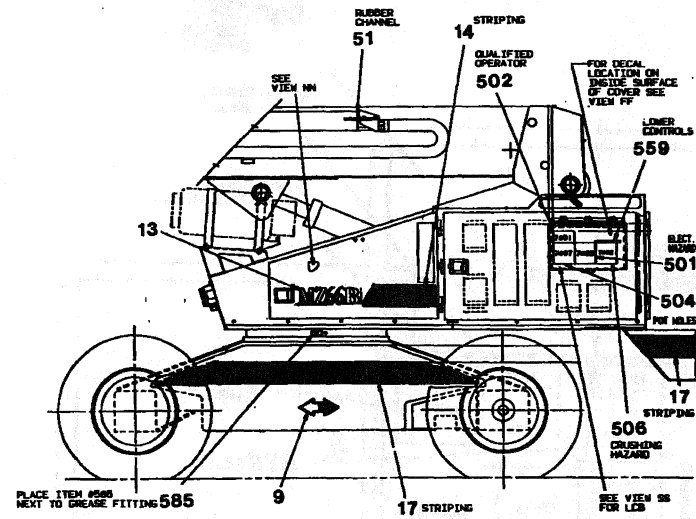
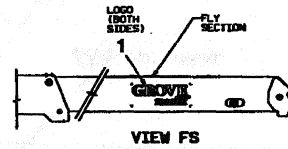
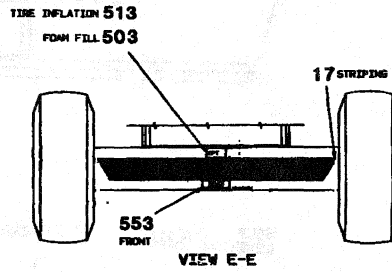
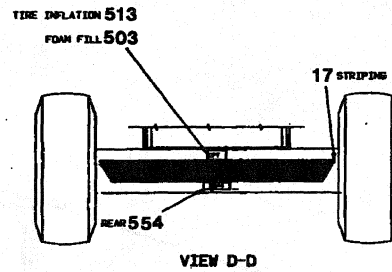
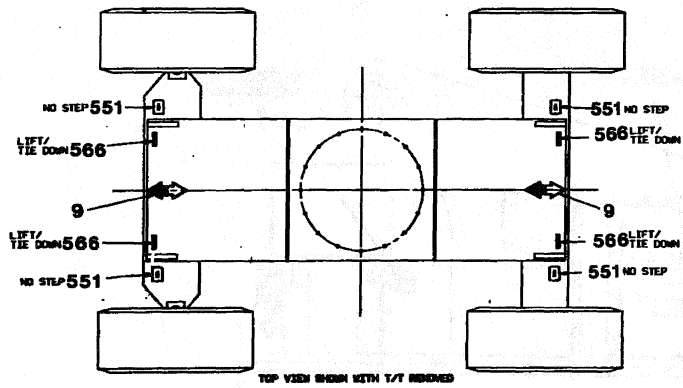
Manitowoc Crane Group



VIEW N-N



VIEW A-A

Manitowoc Crane Group

Manitowoc Crane Group

Description

DECAL INSTALLATION - MZ66B

Assembly No.

6376010045

Revision: #

Item	FN	Part	Qty	Description
1	*	7376008845	2	DECAL - CORPORATE LOGO (WHITE)
6	*	7376007969	2	DECAL - GROVE MANLIFT LOGO (BLACK)
7	*	7376006672	1	DECAL - GROVE WORLDWIDE LOGO (BLACK)
8		7376008933	1	DECAL - NAMEPLATE - MZ66B 500# CAPACITY
8		7376009964	1	NAMEPLATE - MZ66B - 500LBS CAPACITY WITH 500# CAPACITY 36" X 96" MID MOUNTED ALUMINIUM PLATFORM) (USE ON UNITS EQUIPPED
8		7376009452	1	NAMEPLATE - MZ66B - 500LBS CAPACITY WITH 500# CAPACITY 36" X (USE ON UNITS EQUIPPED 60" PLATFORM)
8		7376010286	1	NAMEPLATE - MZ66B (227 KG CAPACITY) (USE ON AUSTRALIAN UNIT)
9	*	7376009674	4	DECAL - ARROW
10		8594000027	1	WRAP, HOSE (QUANTITY IN FEET)
13	*	7376008517	2	DECAL - MZ66B
14		7376007976	4	DECAL - STRIPING
17		7376007976	25	DECAL - STRIPING
20	*	7376003981	1	DECAL - COMPLIANCE
22	+	NSS	1	MOULDING INSTALLATION
36		7348000653	1	BOX, MANUAL
39		7115142650	4	CAP SCREW 1/4" - 20 N.C. X 3 1/4" GRADE 5
40		7950140161	8	FLATWASHER, 1/4" I.D.
41		7660141600	4	LOCKNUT, HEX 1/4" - 20 N.C.
42		7760000011	4	RIVET, POP
43		7195000038	2	BUMPER, RUBBER

* REPAIR KIT AND/OR PART OF KIT

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Crane Group

Description

DECAL INSTALLATION - MZ66B

Assembly No.

6376010045

Revision: #

Item	FN	Part	Qty	Description
44		7111082011	2	SCREW, MACHINE 5/32" - 32 N.C. X 2 1/2" GRADE 1
45		7660081100	2	NUT, HEX 5/32" - 24 N.F. GRADE 1
47		7376007999	2	DECAL - STRIPING
50	#	7709000228	2	PLUG, TUBE END CAP
51		9637100001	2	MOULDING 10 FEET (MUST CUT TO LENGTH NEEDED) (CUT 13' LONG)
500	*	7376007489	1	DECAL - DANGER OPERATING INSTRUCTIONS
501	*	7376007495	3	DECAL - DANGER ELECTRICAL HAZARD
502	*	7376007491	2	DECAL - DANGER QUALIFIED OPERATOR
503		7376007488	2	DECAL - DANGER FOAM FILLED TIRES (USE ON UNITS WITH FOAM FILLED TIRES)
504	*	7376007497	2	DECAL - DANGER POT HOLES (ENGLISH)
505	*	7376007490	2	DECAL - DANGER PROPER MAINTENANCE (ENGLISH)
506	*	7376007492	2	DECAL - DANGER CRUSHING HAZARD
507	*	7376009266	1	DECAL - DANGER FALLING HAZARD
508	*	7376007493	1	DECAL - DANGER OVERHEAD OBSTRUCTION (ENGLISH)
509		7376007246	1	DECAL - DANGER RADIATOR CAP (USE ON UNITS WITH WATER COOLED ENGINES ONLY)
510		7376007248	1	DECAL - DANGER FAN BLADE (USE ON UNITS WITH WATER COOLED ENGINES ONLY)

SERVICED AS AN ASSEMBLY ONLY

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Crane Group

Description
DECAL INSTALLATION - MZ66B

Assembly No.
6376010045
Revision: #

Item	FN	Part	Qty	Description
511		7376007521	1	DECAL - DANGER LP GAS (USE ON UNITS WITH LP GAS OPTION)
512		7376007521	1	DECAL - DANGER LP GAS (USE ON UNITS WITH AUXILIARY LP GAS OPTION)
513		7376002011	2	DECAL - TIRE INFLATION (USE ON UNITS WITH 15 X 9.5, 12 PR 65 PSI GENERAL)
513		7376002012	2	DECAL - TIRE INFLATION (USE ON UNITS WITH 15 X 19.5, 14 PR)
530	*	7376007487	2	DECAL - CAUTION GROUND CONTACT
531	*	7376007485	1	DECAL - CAUTION TESTING
532		7376007486	2	DECAL - CAUTION ENGINE IDLE (USE ON UNITS WITH GAS OR DUAL FUEL)
533		7376007247	1	DECAL - CAUTION COOLANT LEVEL (ENGLISH) (USE ON UNITS WITH WATER COOLED ENGINES ONLY)
545	*	7376007123	1	DECAL - CAPACITY - 500LBS
550	*	7376007501	1	DECAL - SELF-LEVELING (ENGLISH)
551	*	7376007251	4	DECAL - NO STEP
552	*	7376009700	1	DECAL - OPERATING INSTRUCTION (ENGLISH)
553	*	7376002243	1	DECAL - FRONT (ENGLISH)
554	*	7376002244	1	DECAL - REAR (ENGLISH)
555		7376002056	2	DECAL - INSTRUCTIONAL
556		7376002053	2	DECAL - INSTRUCTIONAL
557	*	7376001119	1	DECAL - HYDRAULIC RESERVOIR

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Crane Group

Description

DECAL INSTALLATION - MZ66B

Assembly No.

6376010045

Revision: #

Item	FN	Part	Qty	Description
558	*	7376001117	1	DECAL - IDENTIFICATION (ENGLISH)
559	*	7376001196	1	DECAL - LOWER OVERRIDE CONTROLS (ENGLISH)
560	*	7376001115	1	DECAL - IDENTIFICATION
563		7376001124	1	DECAL - DIESEL FUEL
563		7376001125	1	DECAL - GASOLINE
564	*	7376001205	2	DECAL - 110 VOLT (AC)
565		7376001204	2	DECAL - PNEUMATIC AIR (USE ON UNITS WITH AIR TO PLATFORM OPTION)
566	*	7376008010	4	DECAL - LIFT/TIEDOWN
567	*	7376007236	1	DECAL - HYDRAULIC OIL
568		7376007237	1	DECAL - DIESEL
568		7376007662	1	DECAL - GAS FUEL
569		7376007498	1	DECAL - LIQUID WITHDRAWAL (USE ON UNITS WITH LP GAS OPTION)
572	*	7376003628	1	DECAL - PATENT
573		7376003766	1	DECAL - MANUAL BOX (USE ON UNITS WITH MID MOUNT PLATFORM)
573		7376004508	1	DECAL - MANUAL BOX VERTICAL (USE ON UNITS WITH PEDESTAL MOUNT PLATFORM AND END BOTTOM MOUNT PLATFORM)
574		7376007498	1	DECAL - LIQUID WITHDRAWAL (USE ON UNITS WITH AUXILIARY LP GAS OPTION)
575		7376007034	1	DECAL - UPPER CONTROL BOX OPTIONS (USE ON UNITS WITH UPPER CONTROL BOX OPTIONS)
580	*	7376009731	1	DECAL - UPPER CONTROL BOX RELAYS (ENGLISH)
581	*	7376007986	1	DECAL - LOWER CONTROL BOX RELAYS (ENGLISH)

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Crane Group

Description

DECAL INSTALLATION - MZ66B

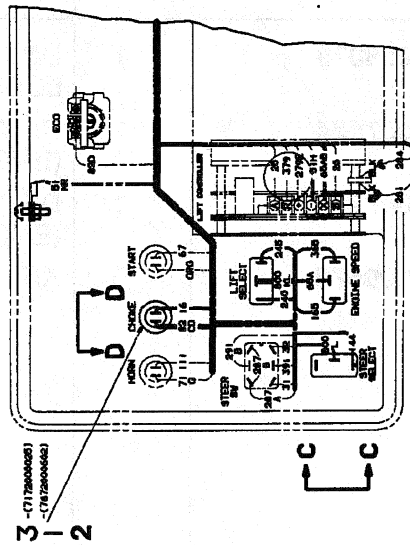
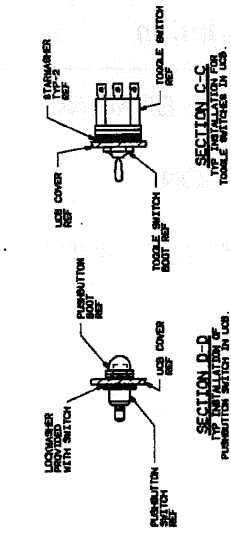
Assembly No.

6376010045

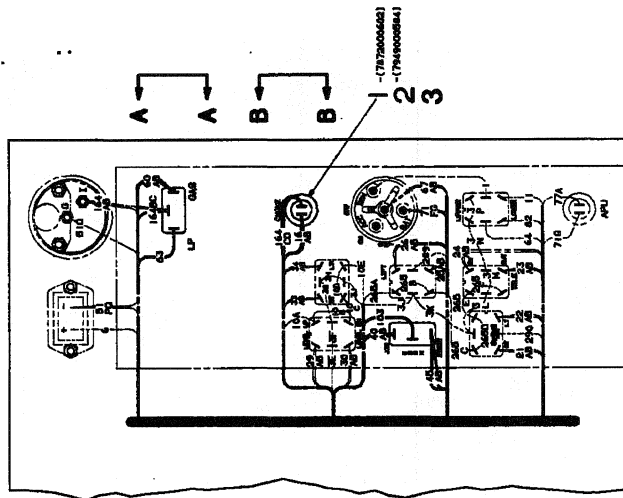
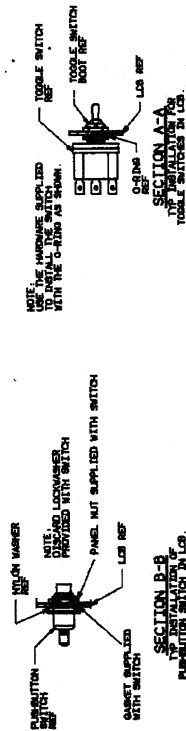
Revision: #

Item	FN	Part	Qty	Description
585	*	7376008079	1	DECAL - TURNTABLE BEARING LUBRICATION
586	*	7376007524	1	DECAL - LUBRICATION (ENGLISH)
587	*	7376008237	1	DECAL - BATTERY DISCONNECT (ENGLISH)
588	*	9376100578	0	KIT, MZ66B DECAL

* REPAIR KIT AND/OR PART OF KIT



LCB VIEW FOR SWITCH OPTS.



LCB VIEW FOR SWITCH OPTS.

Manitowoc Crane Group

Description

SWITCH INSTALLATION - CHOKE/PREHEAT

Assembly No.

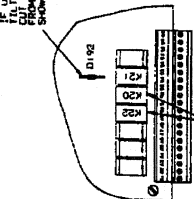
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Revision: **A**

Item	FN	Part	Qty	Description
1	#	7872000602	2	SWITCH, PUSH BUTTON (CHOKE/PREHEAT)
2		7949000584	1	FLATWASHER, NYLON
2		7949000584	2	FLATWASHER, NYLON
3	#	7172000025	1	BOOT, PUSH BUTTON SWITCH
3	#	7172000025	2	BOOT, PUSH BUTTON SWITCH

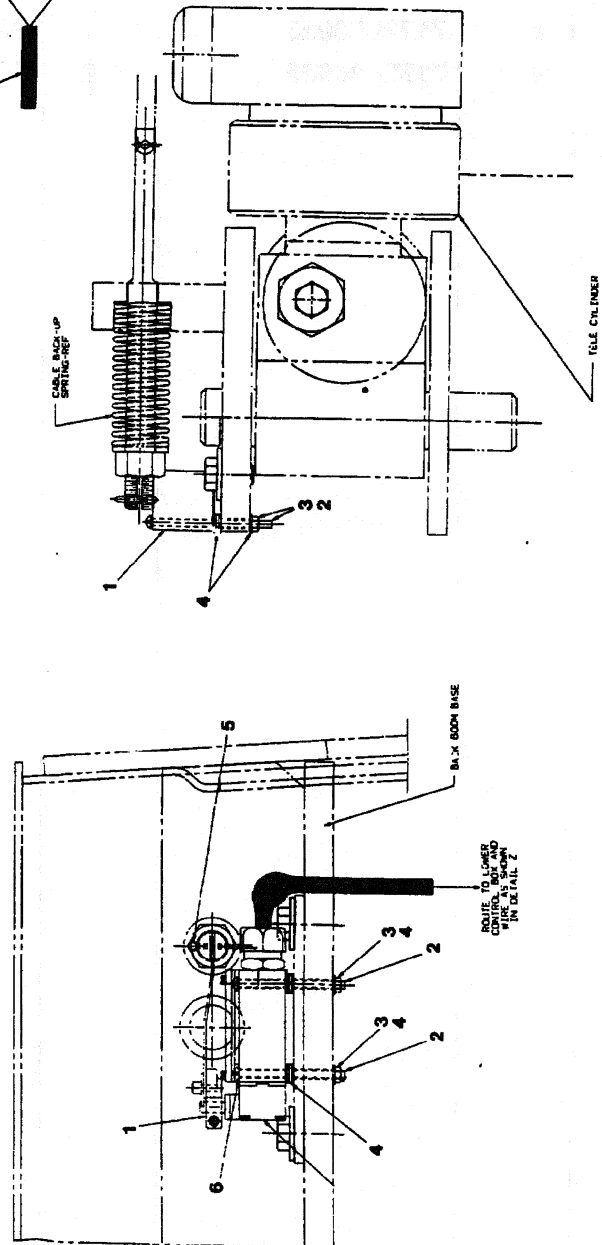
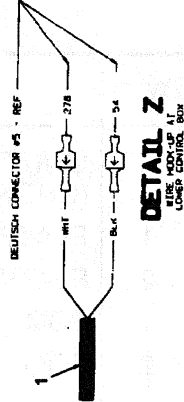
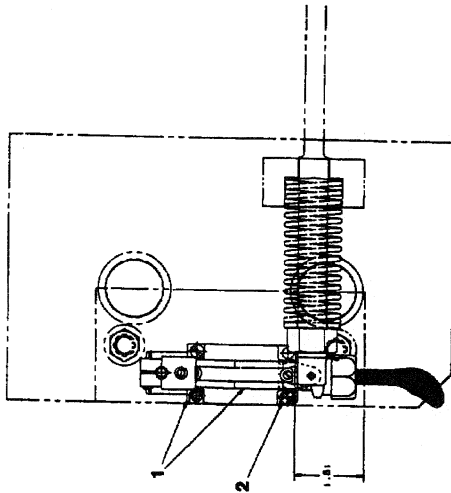
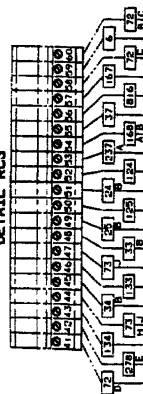
SERVICED AS AN ASSEMBLY ONLY

NOTE:
IF UNIT DOES NOT REQUIRE
CABLE BACK-UP SPRING, REMOVE
CABLE BACK-UP SPRING AND
REMOVE RELAY BOUND AS
SHOWN.



VIEW R
VIEW OF RELAY
BOUND IN LOWER
CONTROL BOX

DETAIL RC3



Manitowoc Crane Group

Description

CABLE BACK-UP INSTALLATION

Assembly No.

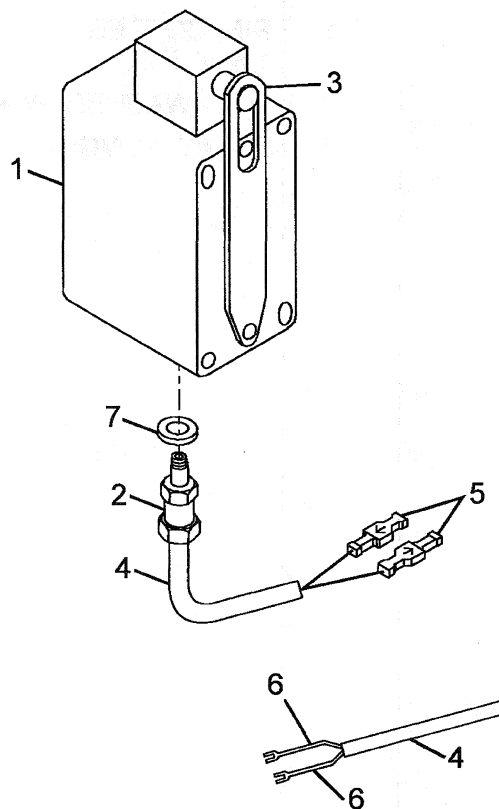
6978003721

Revision: **A**

Item	FN	Part	Qty	Description
1	+	6872001701	1	LIMIT SWITCH ASSEMBLY
2		7111102810	2	SCREW
3		7660101600	2	LOCKNUT 3/16" - 32 N.F. GRADE 1
4		7950100141	8	WASHER, #10 FLAT PLAIN NARROW
5		7690052410	1	PIN, COTTER 1/8" X 1 1/2"
6		7950100050	2	LOCKWASHER, 3/16" I.D.
7	#	7750000697	2	RELAY, 12 VOLT DC

+ SEE FURTHER BREAKDOWN THIS GROUP

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Manitowoc Crane Group

Description

LIMIT SWITCH ASSEMBLY

Assembly No.

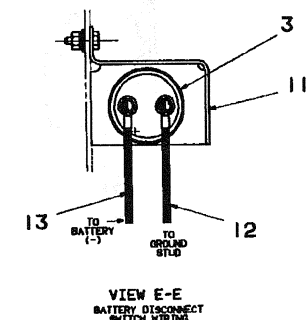
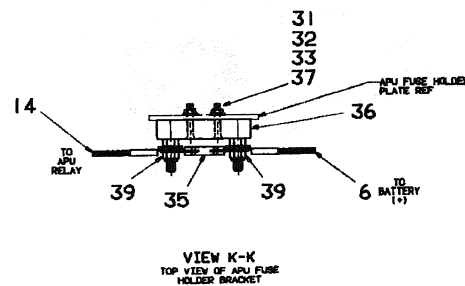
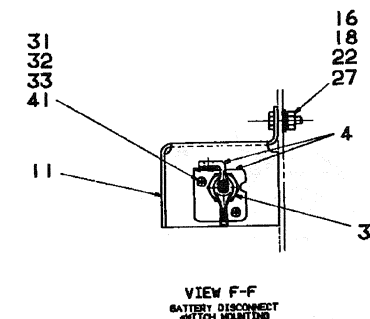
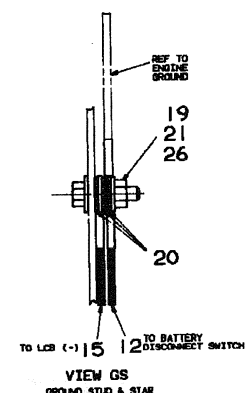
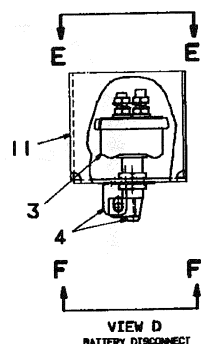
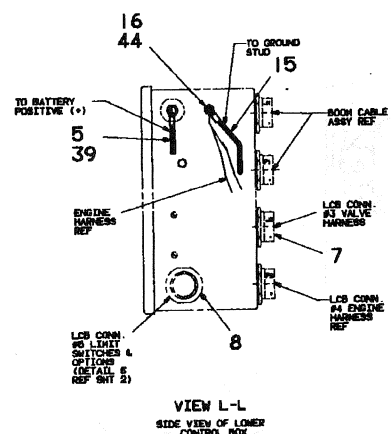
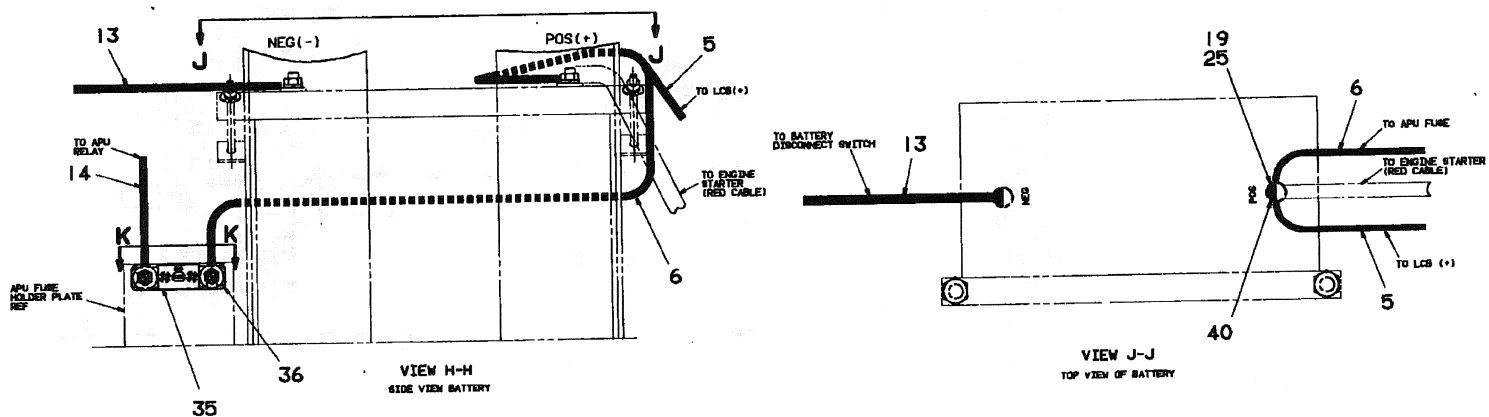
6872001701

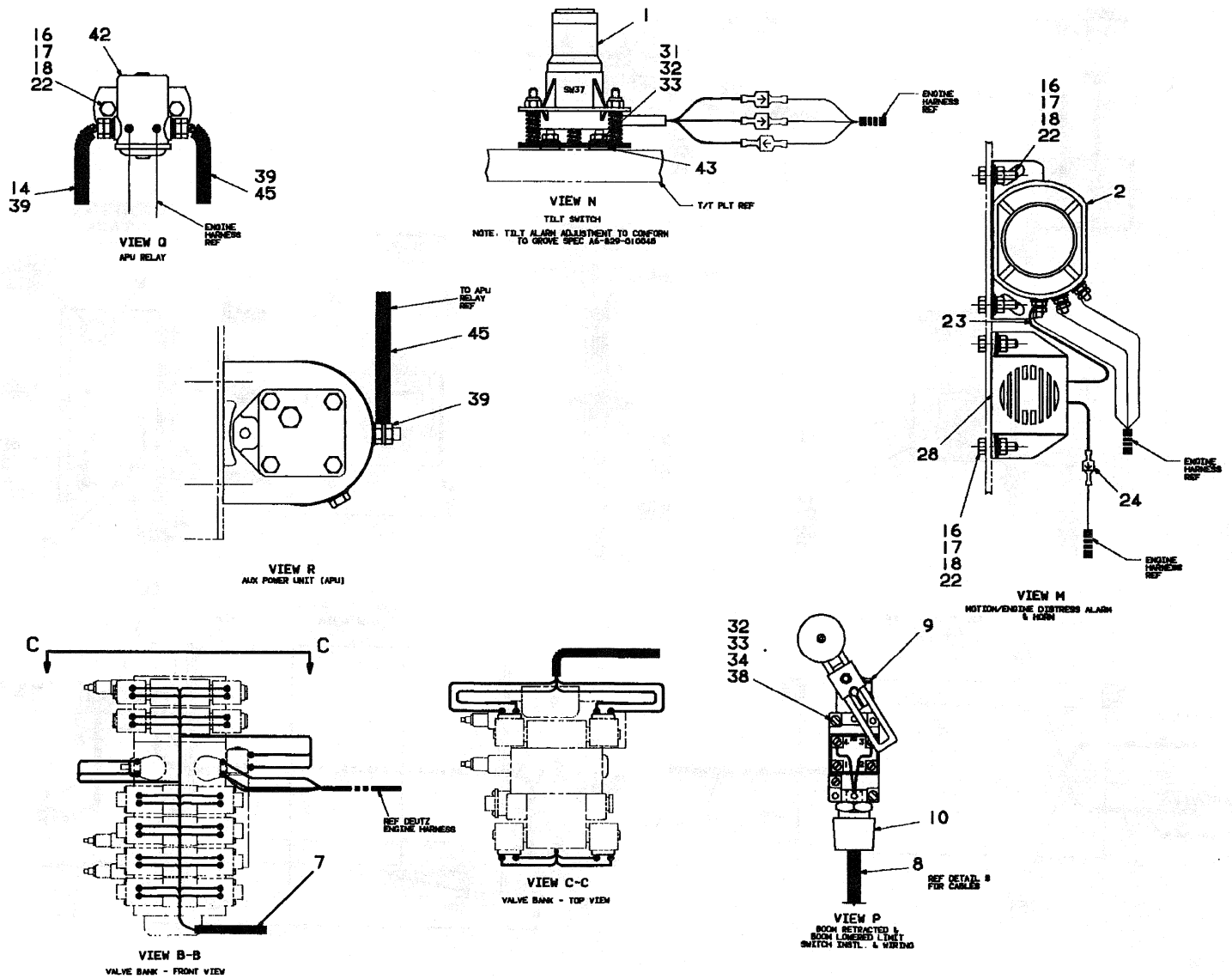
Revision: **A**

Item	FN	Part	Qty	Description
1		7872001700	1	SWITCH, LIMIT INCLUDES THE FOLLOWING PARTS
		7033000356	1	ARM, ACTUATOR
		9872100234	1	HEAD
2		7364001744	1	CONNECTOR, STRAIN RELIEF
3		6033001047	1	ARM, ACTUATOR
4		7246001106	8	CABLE, MULTI-CONDUCTOR 16/2
5		7345001744	2	TERMINAL, FEMALE 16 - 14 AWG
6		7892000993	2	SPADE, SPRING 16 - 14 AWG
7		7794001558	2	RING, SEAL (WITH STEEL RETAINER)

Manitowoc Crane Group

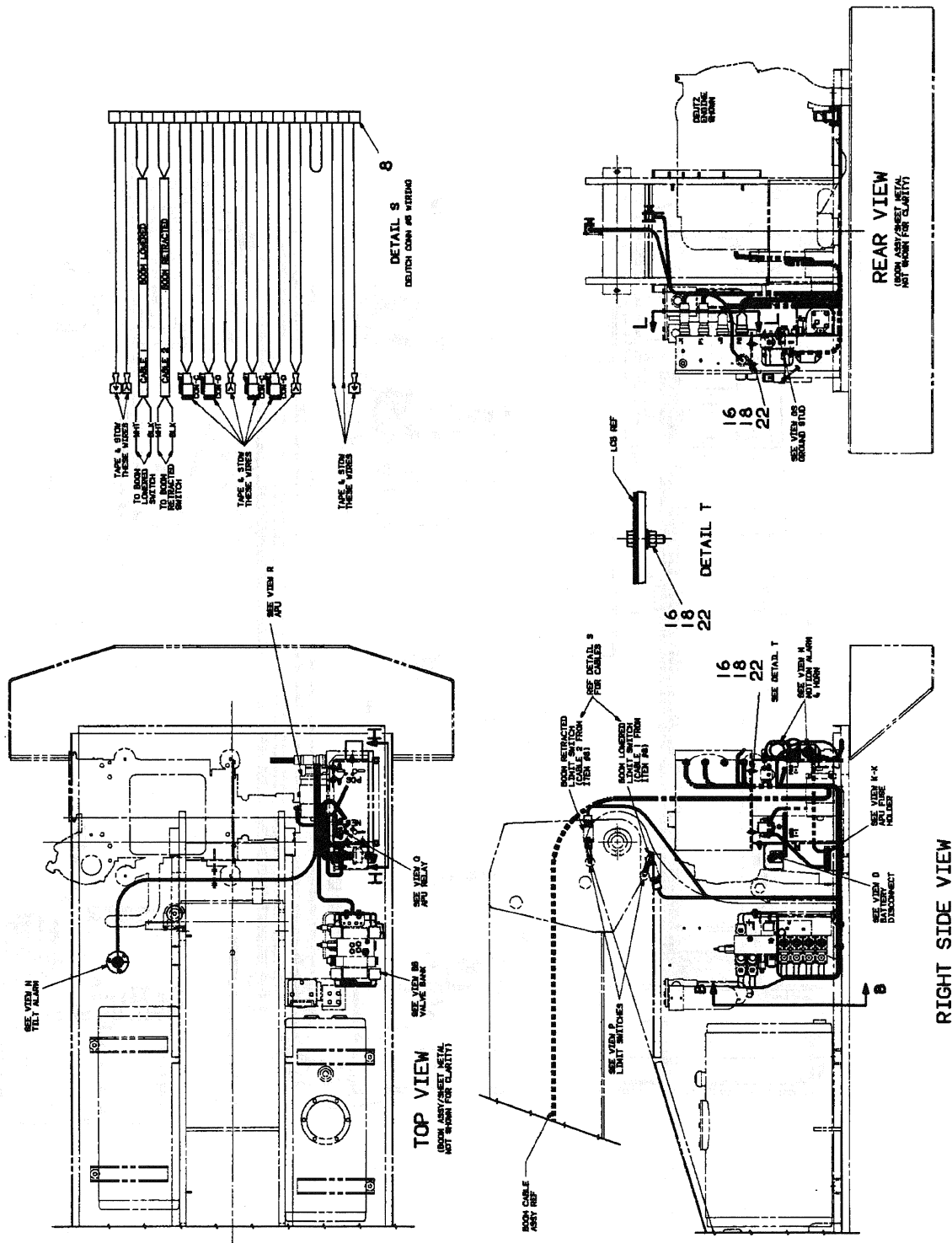
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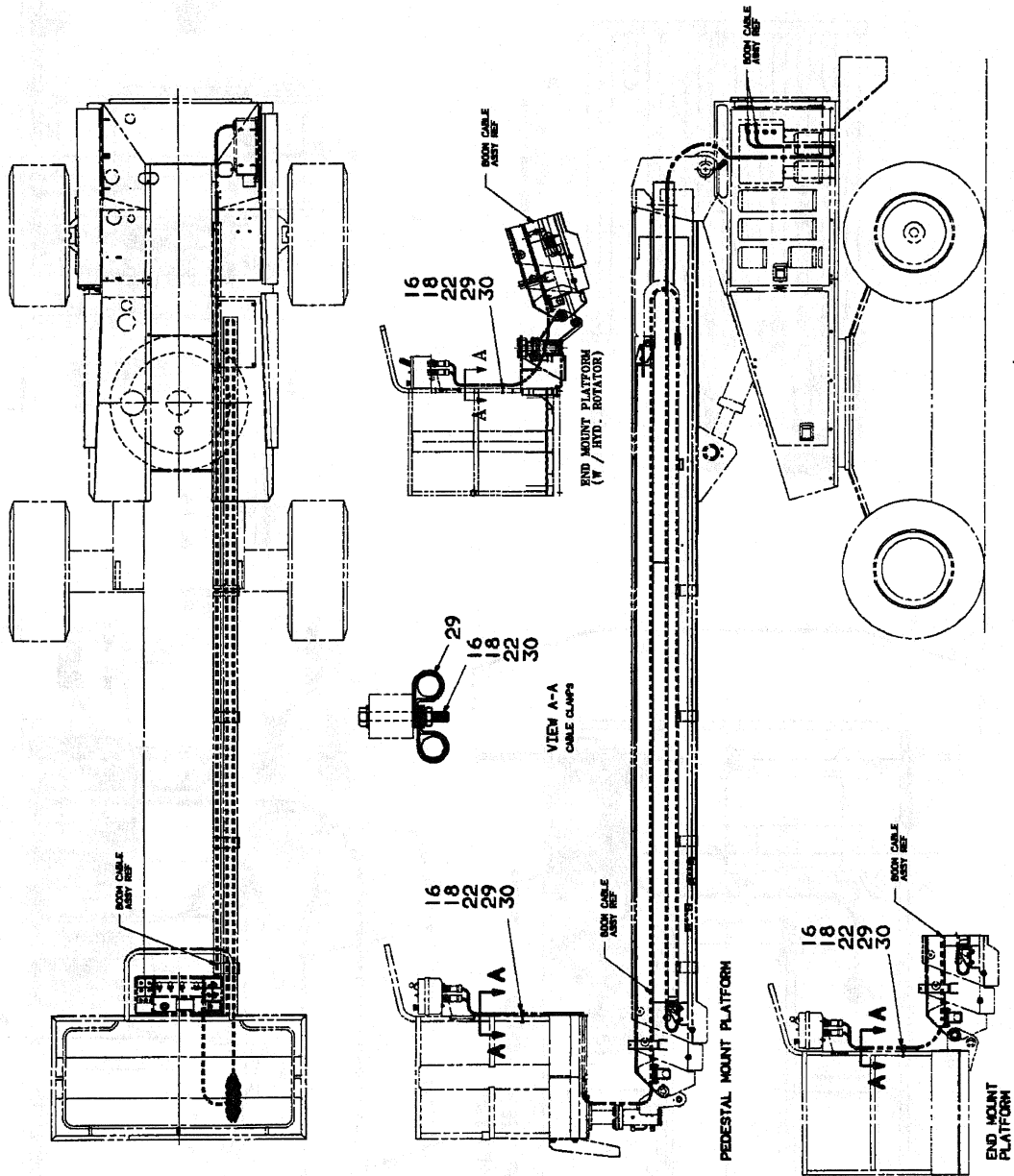




978003554

(SHEET 3 OF 4)





Manitowoc Crane Group

Description
ELECTRICAL SYSTEM INSTALLATION

Assembly No.
6978003554
Revision: **E**

Item	FN	Part	Qty	Description
1	#	7025000779	1	SENSOR, TILT
	#	7482000008	1	INCLUDES THE FOLLOWING PARTS
	#	9025100005	1	FUSE
			1	SPRING
2	#	7025000240	1	ALARM, DUAL FUNCTION
3	#	7872000719	1	SWITCH, BATTERY DISCONNECT
4		7511001113	1	KIT, LOCKOUT LEVER
5		6246002784	1	CABLE, BATTERY (RED) 37 1/2"
6		6246002252	1	CABLE, BATTERY (RED) 24"
7	+	6512001981	1	HARNESS ASSEMBLY
8	+	6512001903	1	HARNESS ASSEMBLY - LIMIT SWITCH
9	#	7872001401	2	SWITCH AND ARM, LIMIT
10	#	7364001359	2	CONNECTOR, STRAIN RELIEF
11		6184002621	1	BRACKET
12		6246002787	1	CABLE, BATTERY (BLACK) 25 1/2"
13		6246002787	1	CABLE, BATTERY (BLACK) 25 1/2"
14		6246002252	1	CABLE, BATTERY (RED) 24"
15		6246002708	1	CABLE, BATTERY (BLACK) 37 1/2"
16		7660140000	14	NUT, HEX 1/4" - 20 N.C.
17		7115140650	8	CAP SCREW 1/4" - 20 N.C. X 3/4" GRADE 5
18		7950140141	15	FLATWASHER, 1/4" I.D.
19		7660160000	3	NUT, HEX 3/8" - 16 N.C.
20		7950160350	3	LOCKWASHER, 3/8" I.D.
21		7950160140	2	FLATWASHER, 3/8" I.D.

SERVICED AS AN ASSEMBLY ONLY

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Crane Group

Description
ELECTRICAL SYSTEM INSTALLATION

Assembly No.
6978003554
Revision: **E**

Item	FN	Part	Qty	Description
22		7950140050	13	LOCKWASHER, 1/4" I.D.
23		7345211701	1	TONGUE, INSULATED RING
24		7345001746	1	TERMINAL, MALE 16 - 14 AWG
25		7950160050	2	LOCKWASHER, 3/8" I.D.
26		7115161250	1	CAP SCREW 3/8" - 16 N.C. X 1 1/2" GRADE 5
27		7115140850	2	CAP SCREW 1/4" - 20 N.C. X 1" GRADE 5
28		7025000792	1	HORN
29		7300000242	2	CLAMP, TUBING 3/4"
30		7115141850	1	CAP SCREW 1/4" - 20 N.C. X 2 1/4" GRADE 5
31		7950100141	6	WASHER, #10 FLAT PLAIN NARROW
32		7660101100	8	NUT, HEX 3/16" - 32 N.F. GRADE 1
33		7950100050	8	LOCKWASHER, 3/16" I.D.
34		7950100161	4	FLATWASHER 3/16" I.D.
35		7482000040	1	FUSE, 200 AMP
36		7086001082	1	HOLDER, FUSE
37		7111100807	2	SCREW, MACHINE 3/16" - 24 N.C. X 1" GRADE 1
38		7111101610	4	SCREW, MACHINE 3/16" - 24 N.C. X 2" GRADE 1
39		7172000029	6	BOOT, RUBBER
40		7172000016	1	INSULATOR, BATTERY TERMINAL
41		7111100510	2	SCREW, MACHINE 3/16" - 24 N.C. X 5/8" GRADE 1
42	#	7750000057	1	SOLENOID
43		7950150141	2	WASHER, 5/16" I.D.

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Crane Group

Description

ELECTRICAL SYSTEM INSTALLATION

Assembly No.

6978003554

Revision: **E**

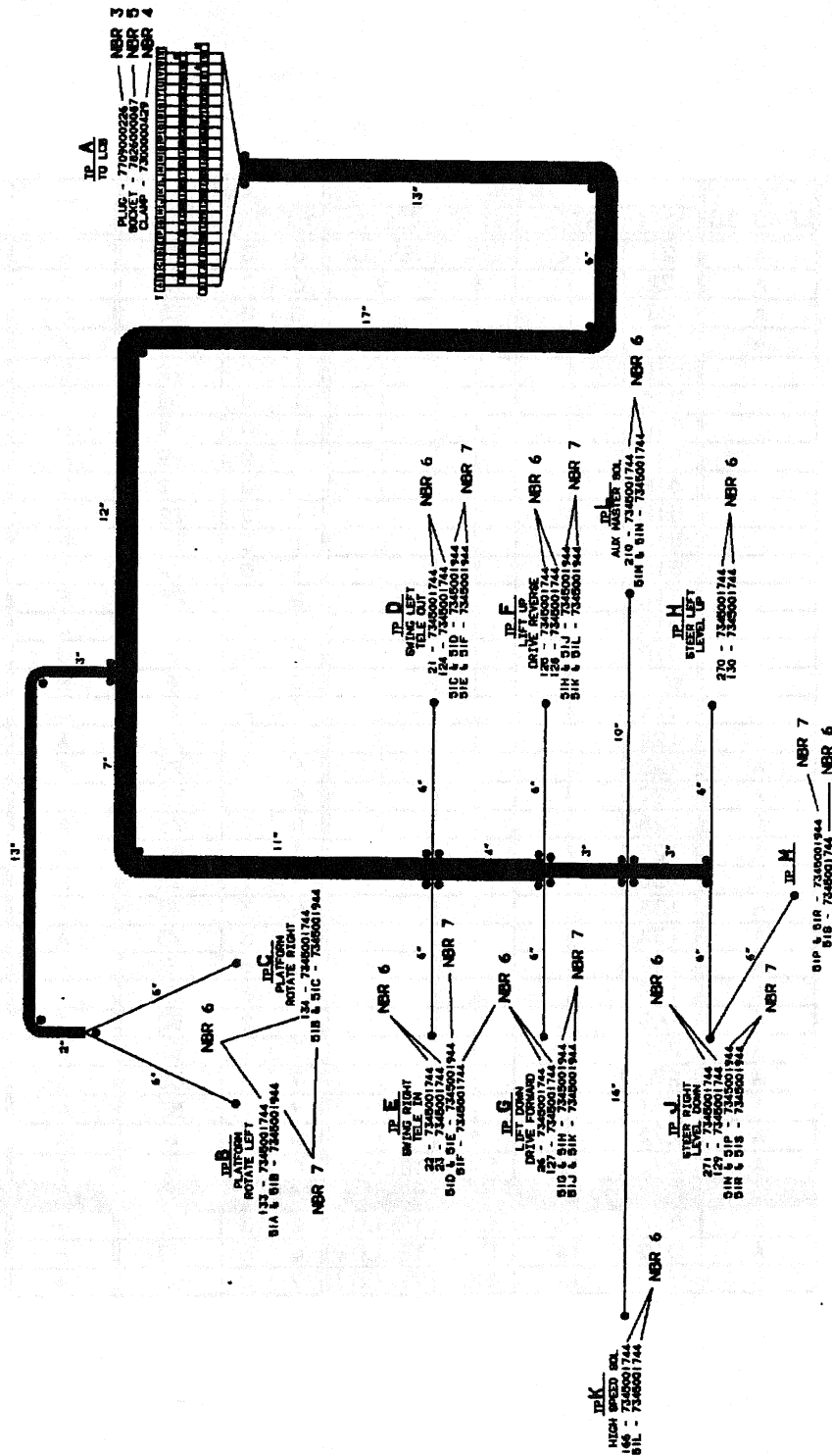
Item	FN	Part	Qty	Description
44		7950140350	1	LOCKWASHER, 1/4" I.D.
45		6246002540	1	CABLE, BATTERY (RED) 20"

Manitowoc Crane Group

"C" LOAD ID	WIRE				LENGTH		TP	TP
	NUM	SIZE	TYPE	COLOR	FT-IN	TOT IN		
A	21	16	SXL	YELLOW	6	3 75	A	D
A	22	↑	↑	↑	6	3 75	A	E
A	23				6	3 75	A	E
A	26				6	7 79	A	G
	51B				1	0 12	B	C
	51C				4	0 48	C	D
	51D				1	0 12	D	E
	51E				1	0 12	E	D
	51F				1	0 12	D	E
	51H				1	0 12	G	F
	51J				1	0 12	F	G
	51K				1	0 12	G	F
	51L				2	1 25	F	K
	51N				1	7 19	J	L
	51P				0	6 6	J	M
	51R				0	6 6	M	J
	51S				0	6 6	J	M
A	124				6	3 75	A	D
A	125				6	7 79	A	F
A	127				6	7 79	A	G
A	128				6	7 79	A	F
A	129				7	1 85	A	J
A	130				7	1 85	A	H
A	133				6	3 75	A	B
A	134				6	3 75	A	C
A	140				0	6 6	A	A
A	145				0	6 6	A	A
A	166				7	8 92	A	K
A	210				7	2 86	A	L
A	270				7	1 85	A	H
A	271				7	1 85	A	J
A	272	↓	↓	↓	0	6 6	A	A
A	273	16	SXL	YELLOW	0	6 6	A	A
A	51A	14	SXL	YELLOW	6	3 75	A	B
A	51G	14	SXL	YELLOW	6	6 79	A	G
A	51M	14	SXL	YELLOW	7	2 86	A	L

6512001981

(SHEET 2 OF 2)



Manitowoc Crane Group

Description

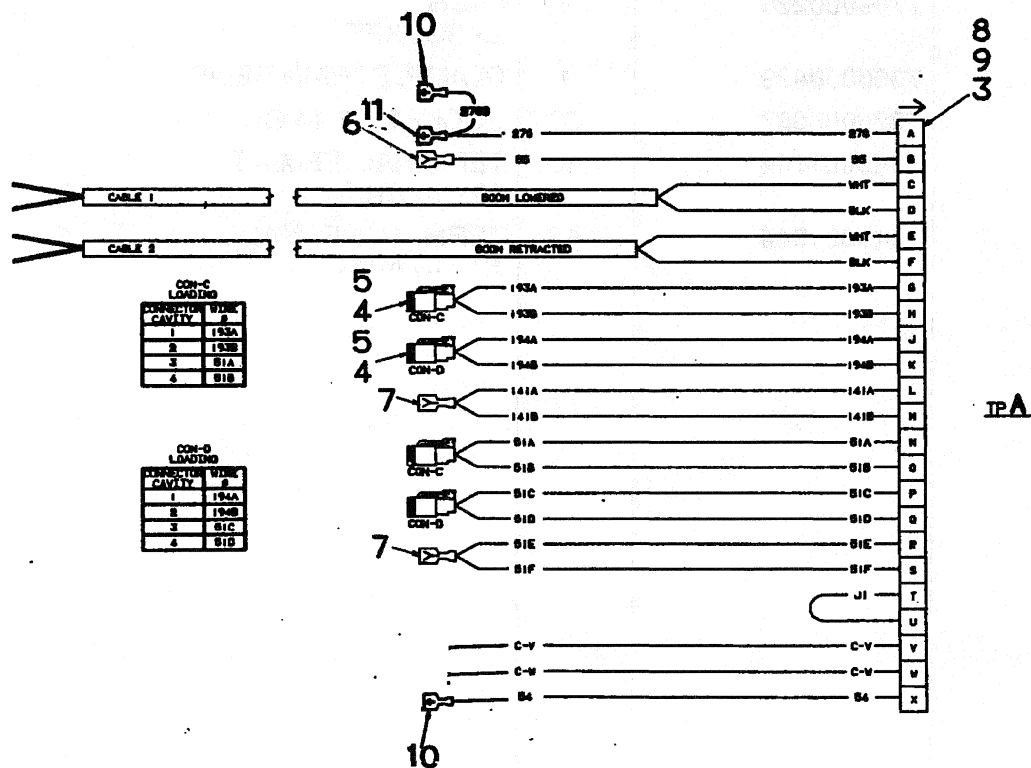
HARNES ASSEMBLY

Assembly No.

6512001981

Revision: **A**

Item	FN	Part	Qty	Description
3		7709000226	1	PLUG 23 SOCKET
4		7300000429	1	CLAMP, STRAIN RELIEF
5		7826000087	23	SOCKET, 16-14 GA
6		7345001744	19	TERMINAL, FEMALE 16 - 14 AWG
7		7345001944	13	TERMINAL, FEMALE 12 - 10 AWG



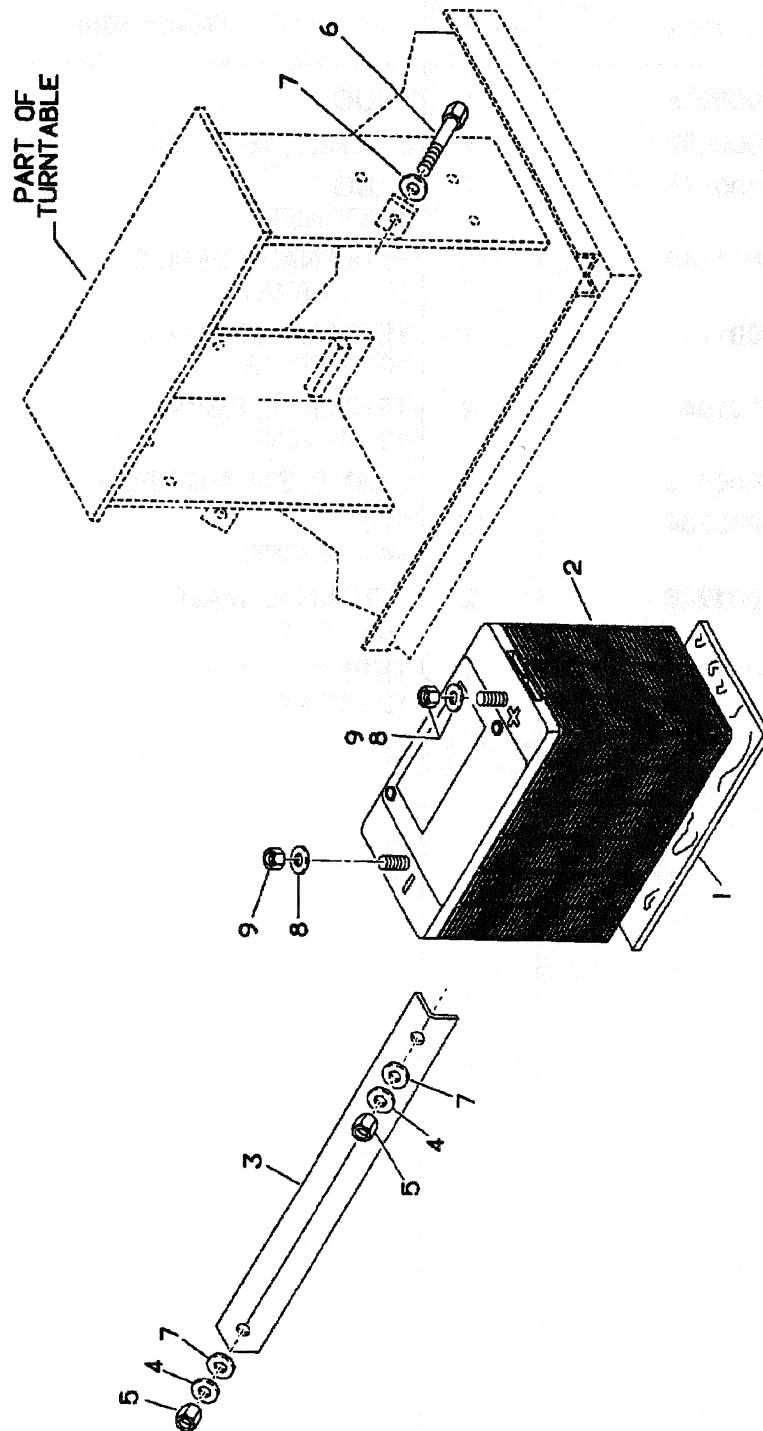
AC- LOAD IN	WDM				LENGTH		TP	TP
	NUM	SLOC	TYPE	COLOR	FT-IN	IN IN		
A.C	81A	16	SPL	YELLOW	1' 0	12	A	B
A.C	81B	?	?	?	1' 0	12	A	B
A.D	81C	?	?	?	1' 0	12	A	B
A.D	81D	?	?	?	1' 0	12	A	B
A	81E	?	?	?	1' 0	12	A	B
A	81F	?	?	?	1' 0	12	A	B
A	86	?	?	?	1' 0	12	A	B
A	88	?	?	?	1' 0	12	A	B
A	121A	?	?	?	1' 0	12	A	B
A	121B	?	?	?	1' 0	12	A	B
A.C	123A	?	?	?	1' 0	12	A	B
A.C	123B	?	?	?	1' 0	12	A	B
A.D	194A	?	?	?	1' 0	12	A	B
A.D	194B	?	?	?	1' 0	12	A	B
A	27A	?	?	?	1' 0	12	A	B
A	31	?	?	?	0' 14	4	A	B
A	C-4	?	?	?	0' 14	4	A	B
A	C-9	16	SPL	YELLOW	1' 0	12	A	B

Manitowoc Crane Group

Description
HARNESS ASSEMBLY - LIMIT SWITCH

Assembly No.
6512001903
Revision: **B**

Item	FN	Part	Qty	Description
3		7709000206	1	PLUG
4		7826000087	8	SOCKET, 16-14 GA
5		7709000814	2	PLUG 4 SOCKET
6		7345001744	2	TERMINAL, FEMALE 16 - 14 AWG
6		7345001744	1	TERMINAL, FEMALE 16 - 14 AWG
7		7345001944	2	TERMINAL, FEMALE 12 - 10 AWG
8		7300000429	1	CLAMP, STRAIN RELIEF
9		7689000704	23	PIN 14 - 16 AWG
10		7345001746	2	TERMINAL, MALE 16 - 14 AWG
11		7345001946	1	TERMINAL, MALE 12 - 10 AWG



Manitowoc Crane Group

Description

BATTERY INSTALLATION

Assembly No.

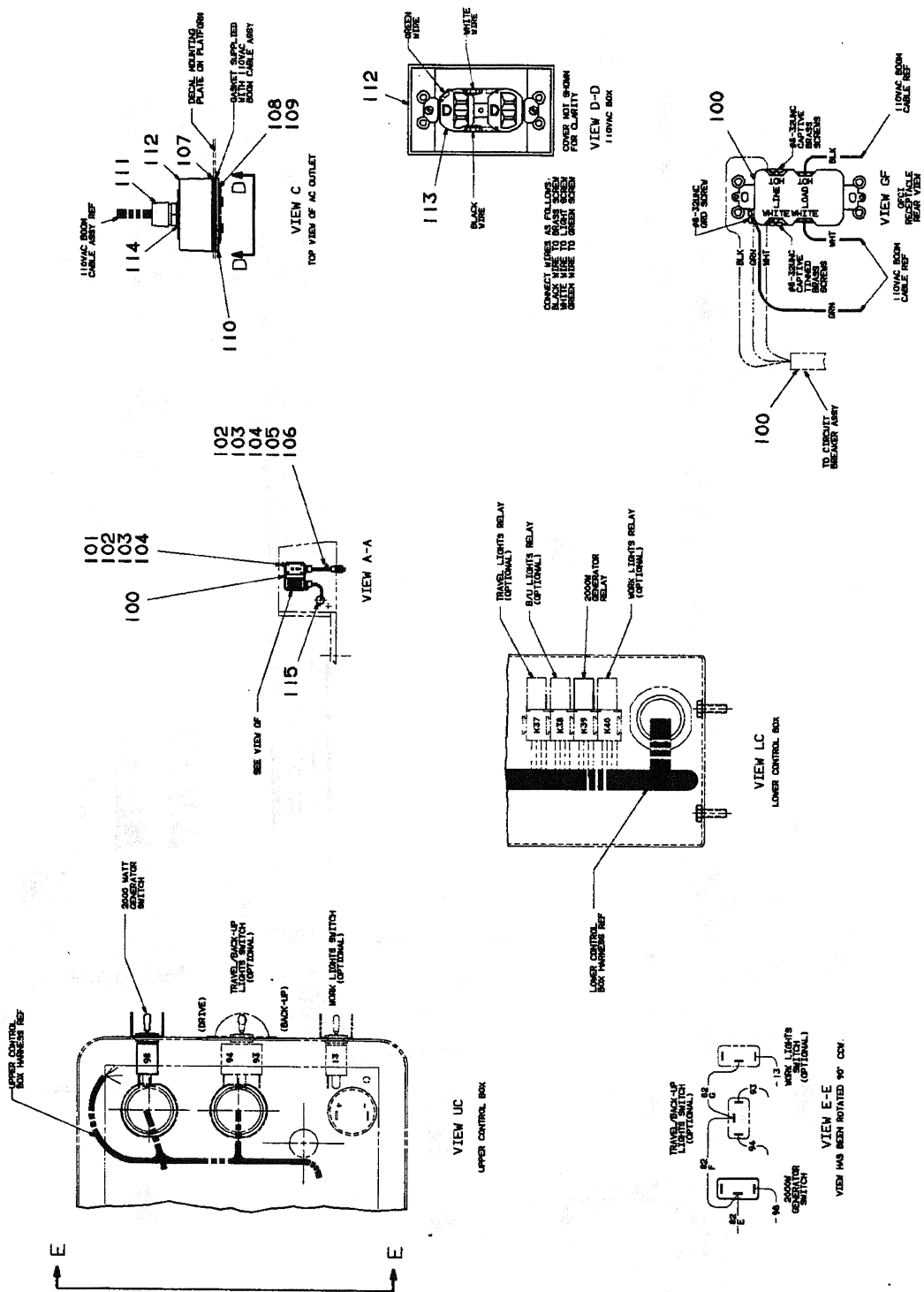
6978003592

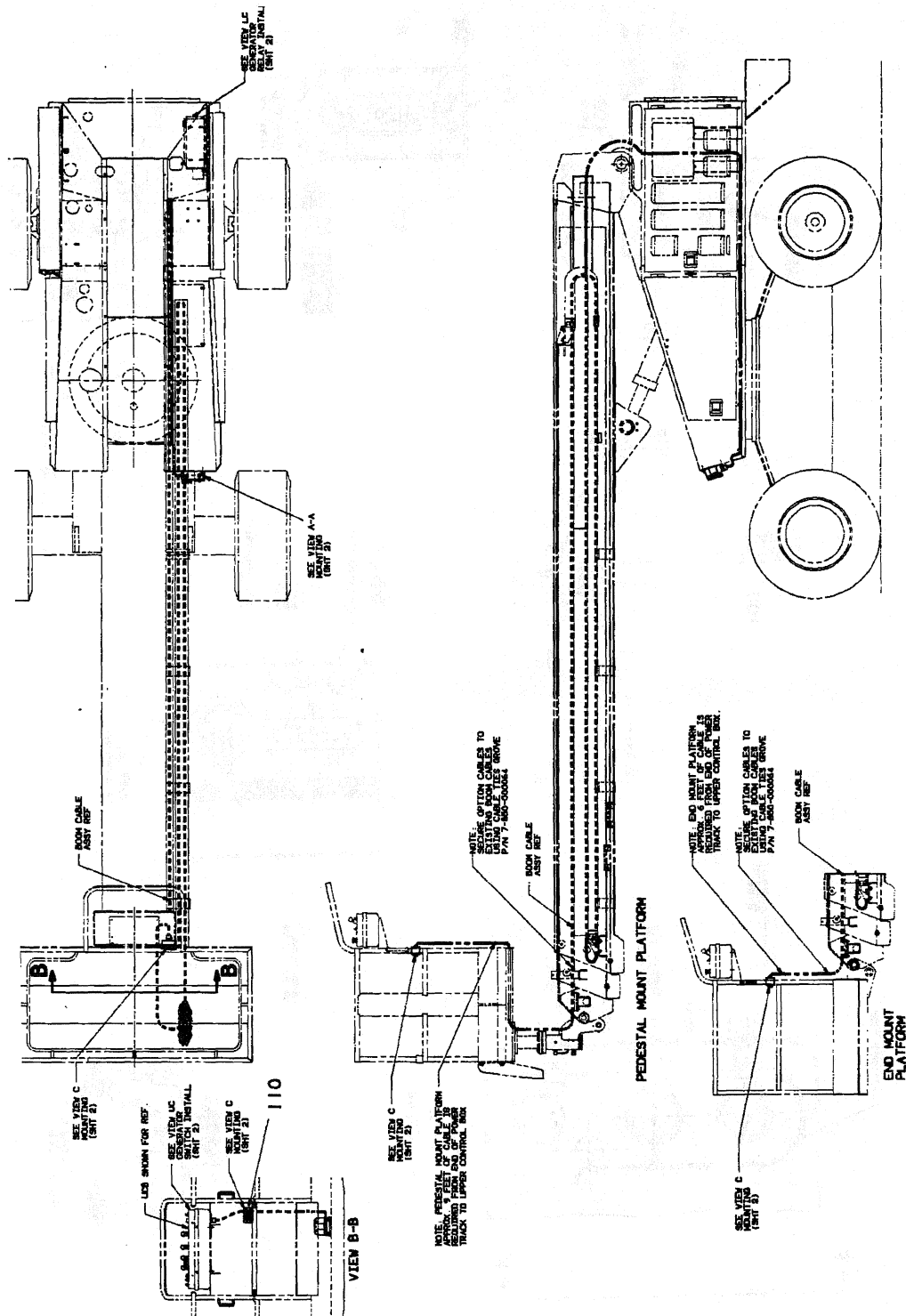
Revision: #

Item	FN	Part	Qty	Description
1		6980000017	1	PLYWOOD
2		7064000034	1	BATTERY, 12 VOLT
3		4139200047	1	ANGLE
4		7950140050	2	LOCKWASHER, 1/4" I.D.
5		7660140001	2	NUT, HEX 1/4" - 20 N.C. GRADE 5
6		7115142850	2	CAP SCREW 1/4" -20 N.C. X 3 1/2" GRADE 5
7		7950140141	4	FLATWASHER, 1/4" I.D.
8		7950160050	2	LOCKWASHER, 3/8" I.D.
9		7660160001	2	NUT, HEX 3/8" - 16 N.C. GRADE 5

Manitowoc Crane Group

Notes





Manitowoc Crane Group

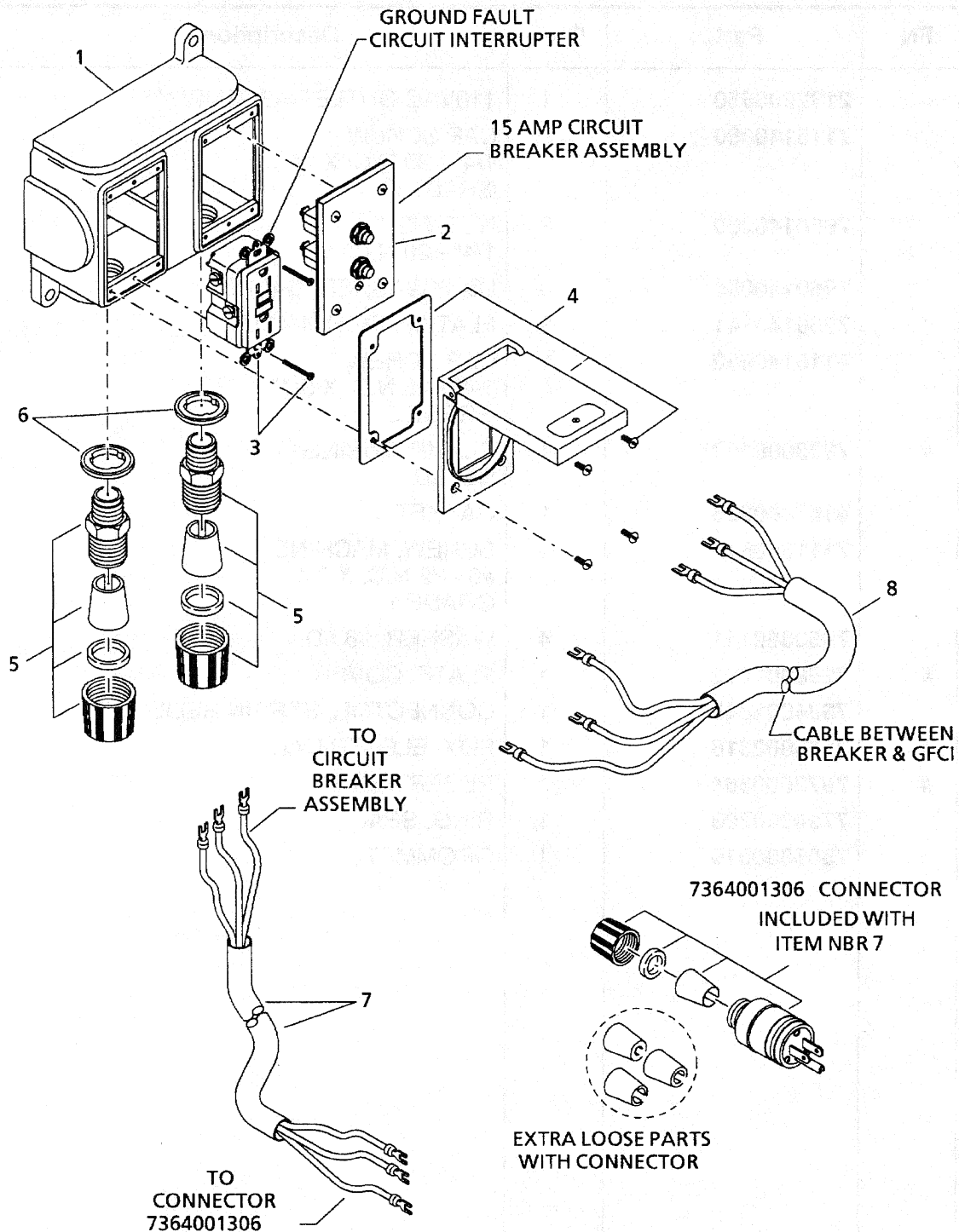
Description
110 VAC INSTALLATION

Assembly No.
6978003599
Revision: **A**

Item	FN	Part	Qty	Description
100	+	2132600650	1	110VAC OUTLET ASSEMBLY
101		7115140850	2	CAP SCREW 1/4" - 20 N.C. X 1" GRADE 5
102		7660140000	3	NUT, HEX 1/4" - 20 N.C.
103		7950140050	3	LOCKWASHER, 1/4" I.D.
104		7950140141	3	FLATWASHER, 1/4" I.D.
105	#	7115140650	1	CAP SCREW 1/4" - 20 N.C. X 3/4" GRADE 5
106		7300000102	1	CLAMP, TUBING 5/8" I.D.
107		4146200026	1	GASKET
108		7111060610	4	SCREW, MACHINE #6 - 32 N.C. X 3/4" GRADE 1
109		7950060141	4	WASHER, #6 I.D.
110		7258001402	1	PLATE, COVER
111		7364001845	1	CONNECTOR, STRAIN RELIEF
112		7176002318	1	BOX, ELECTRICAL
113		7872000364	1	RECEPTACLE,
114		7794000708	1	RING, SEAL
115		7506000019	1	GROMMET

+ SEE FURTHER BREAKDOWN THIS GROUP

SERVICED AS AN ASSEMBLY ONLY



Manitowoc Crane Group

Description

110VAC OUTLET ASSEMBLY

Assembly No.

2132600650

Revision: #

Item	FN	Part	Qty	Description
1	#	7176002052	1	BOX, ELECTRICAL
2	+	6872000724	1	CIRCUIT BREAKER ASSEMBLY
3		7892000270	1	INTERRUPTER, CIRCUIT
4		7258000856	1	COVER, VERTICAL PROTECTIVE
5		7364001845	2	CONNECTOR, STRAIN RELIEF
6		7794000708	2	RING, SEAL
7		6246001555	1	CABLE, 110 VAC POWER INCLUDES THE FOLLOWING PARTS
		7345171706	3	TERMINAL 16 - 14 AWG
		7364001306	1	CONNECTOR, MALE
8		6246001554	1	CABLE, 110 VAC POWER INCLUDES THE FOLLOWING PARTS
		7345171706	3	TERMINAL 16 - 14 AWG
		7345191706	3	TERMINAL 16 - 14 AWG

SERVICED AS AN ASSEMBLY ONLY

+ SEE FURTHER BREAKDOWN THIS GROUP

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Manitowoc Crane Group

Description

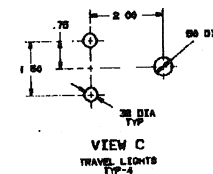
CIRCUIT BREAKER ASSEMBLY

Assembly No.

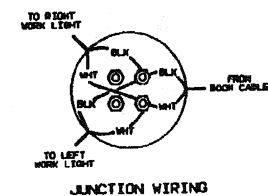
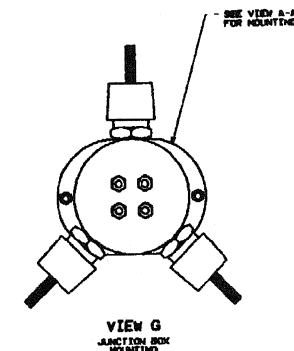
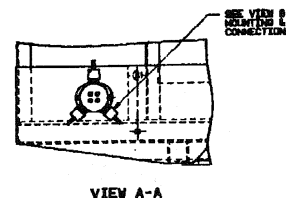
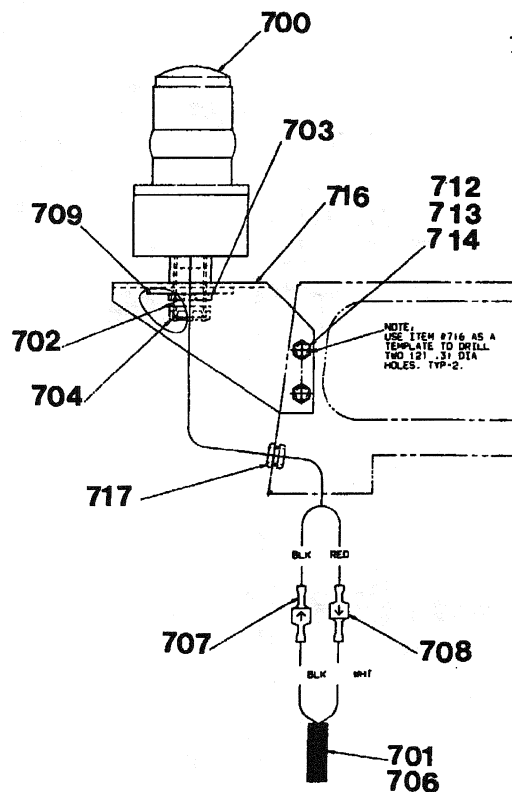
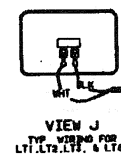
6872000724

Revision: **A**

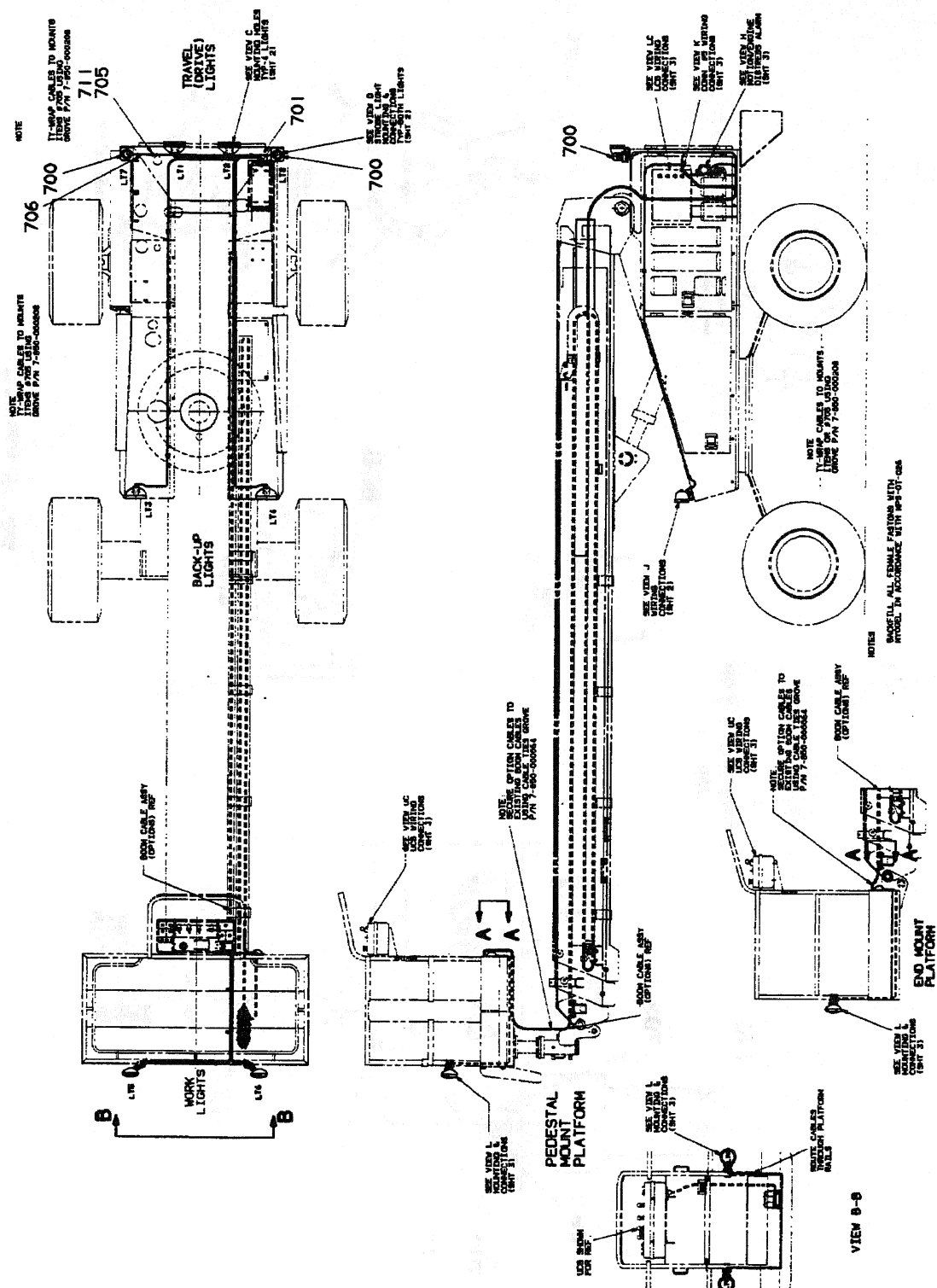
Item	FN	Part	Qty	Description
1		220003504	2	BREAKER, 15 AMP CIRCUIT
2		7258000857	1	COVER
3		7111060511	1	SCREW, MACHINE #6 - 32 N.C. X 5/8" GRADE 1
4		7660061100	2	NUT, HEX #6 - 32 N.C. GRADE 1
5		7950060050	2	LOCKWASHER, #6 I.D.
6		7950060141	1	WASHER, #6 I.D.
7		7755012000	2	O-RING



ITEMS NOT SHOWN
NBR 715



NOTES:
BACKFILL ALL FEMALE FASTENERS WITH NYLOK IN ACCORDANCE WITH NPS-01-005.



Manitowoc Crane Group

Description

LIGHTS INSTALLATION - STROBE

Assembly No.

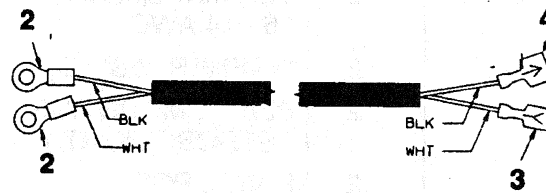
6978003609

Revision: **A**

Item	FN	Part	Qty	Description
700		7581000370	2	LIGHT, STROBE INCLUDES THE FOLLOWING PARTS
		9581100139	1	LENS, AMBER
		9581100140	1	BULB
701	+	6246002572	1	CABLE ASSEMBLY - STROBE LIGHT
702		6650040090	2	NIPPLE, PIPE
703		7659000205	2	LOCKNUT 1/2" - 14 N.P.S.
704		7199001965	2	BUSHING
705	#	7638000157	2	MOUNT, WIRE TIE
706	+	6246002573	1	CABLE ASSEMBLY - STROBE LIGHT
707		7345001744	2	TERMINAL, FEMALE 16 - 14 AWG
708		7345001746	2	TERMINAL, MALE 16 - 14 AWG
709		7950240141	2	WASHER, 7/8" I.D.
710		6705016315	2	PLATE, MOUNTING (STROBE LIGHT)
711		7760000022	2	RIVET, POP
712		7115140850	2	CAP SCREW 1/4" - 20 N.C. X 1" GRADE 5
713		7950140161	4	FLATWASHER, 1/4" I.D.
714		7660141601	2	LOCKNUT, HEX 1/4" - 20 N.C. GRADE 5
715		7242000019	4	PLUG, 5/16" BUTTON
716		6705016316	1	PLATE, MOUNTING (STROBE LIGHT)
717		7506000001	2	GROMMET .38" I.D.

+ SEE FURTHER BREAKDOWN THIS GROUP

SERVICED AS AN ASSEMBLY ONLY



Manitowoc Crane Group

Description

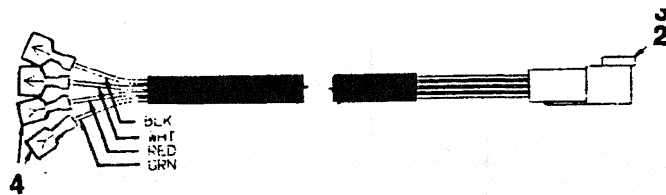
CABLE ASSEMBLY - STROBE LIGHT

Assembly No.

6246002572

Revision: **A**

Item	FN	Part	Qty	Description
2		7345211901	2	TERMINAL 12 - 10 AWG
3		7345001744	1	TERMINAL, FEMALE 16 - 14 AWG
4		7345001746	1	TERMINAL, MALE 16 - 14 AWG



Manitowoc Crane Group

Description

CABLE ASSEMBLY - STROBE LIGHT

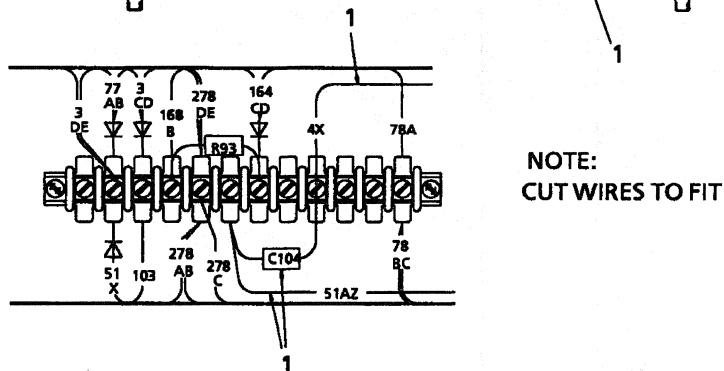
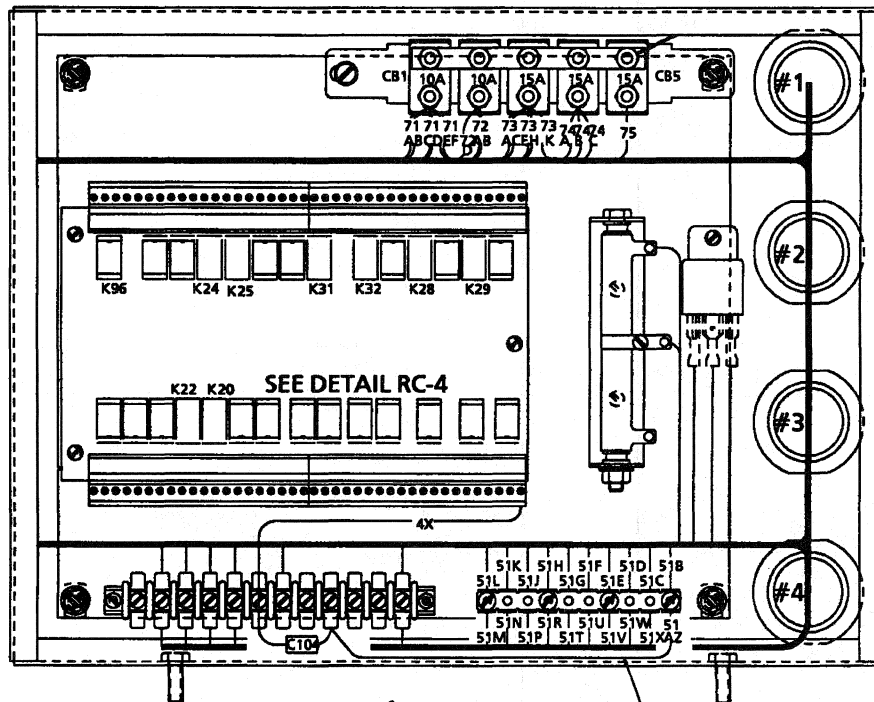
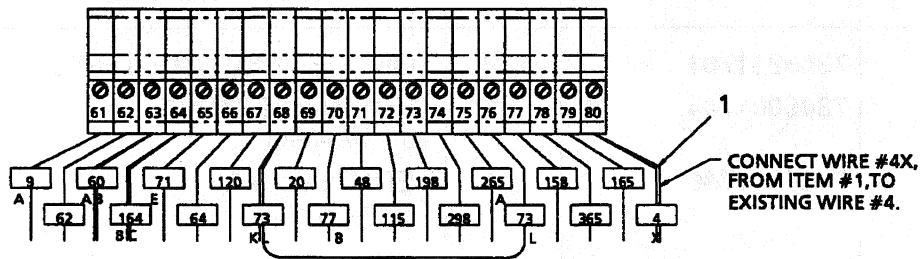
Assembly No.

6246002573

Revision: **B**

Item	FN	Part	Qty	Description
2		7345211701	2	TONGUE, INSULATED RING
3		7345001744	1	TERMINAL, FEMALE 16 - 14 AWG
4		7345001746	1	TERMINAL, MALE 16 - 14 AWG

DETAIL RC4



Manitowoc Crane Group

Description

CAPACITOR ELECTRICAL INSTALLATION -

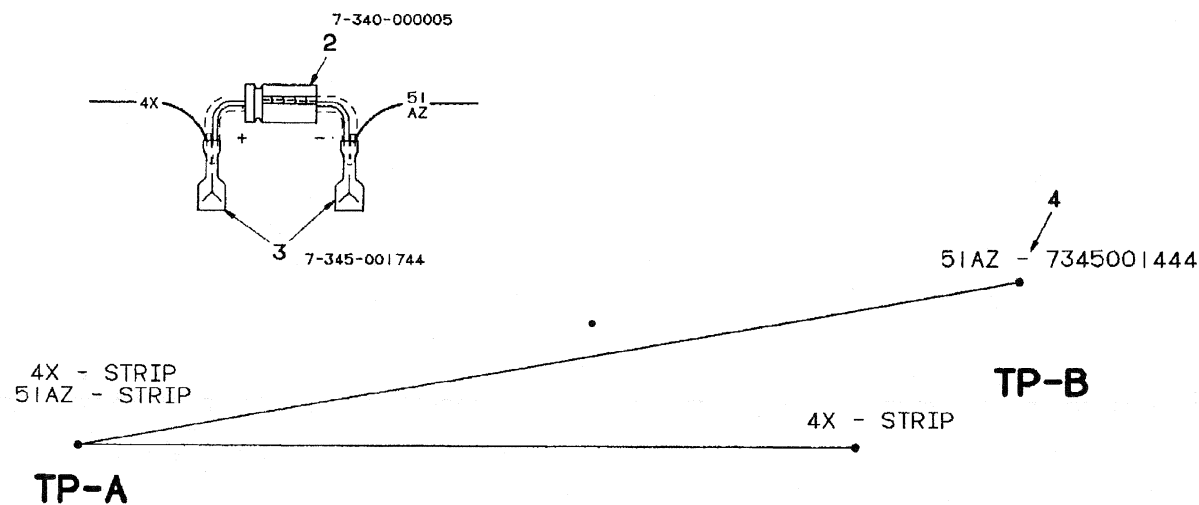
Assembly No.

6978004178

Revision: #

Item	FN	Part	Qty	Description
1	+	6340000523	1	CAPACITOR ASSEMBLY

+ SEE FURTHER BREAKDOWN THIS GROUP



"C" LOAD ID	WIRE				LENGTH			TP	TP
	NUM	SIZE	TYPE	COLOR	FT-IN	TOT IN			
	4X	18	GPT	WHITE	1	1	13	A	B
	51AZ	18	GPT	WHITE	1	4	16	A	B

Manitowoc Crane Group

Description

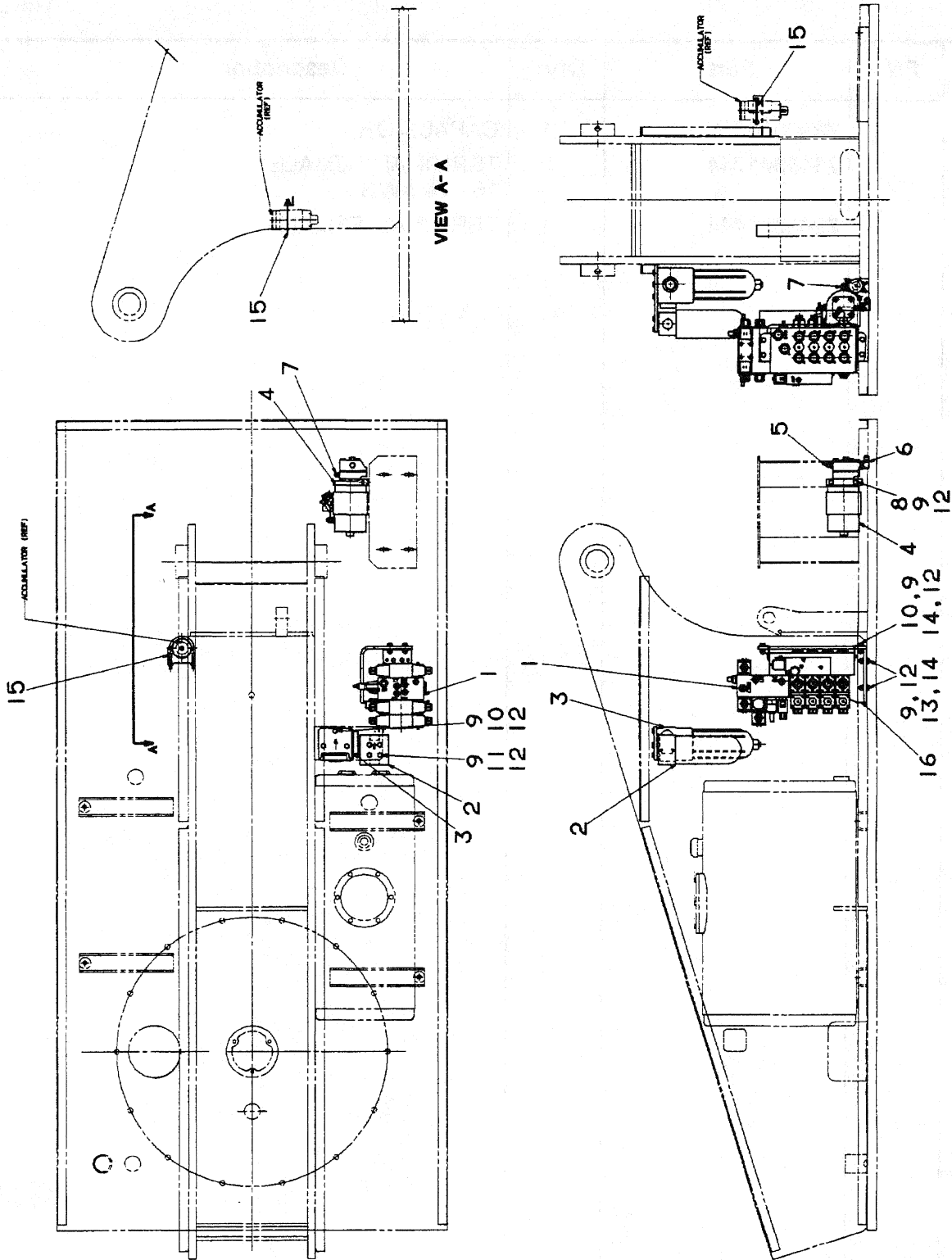
CAPACITOR ASSEMBLY

Assembly No.

6340000523

Revision: #

Item	FN	Part	Qty	Description
2		7340000005	1	CAPACITOR
3		7345001744	2	TERMINAL, FEMALE 16 - 14 AWG
4		7345001444	1	TERMINAL, FEMALE



Manitowoc Crane Group

Description

HYDRAULIC COMPONENTS INSTALLATION

Assembly No.

2145600652

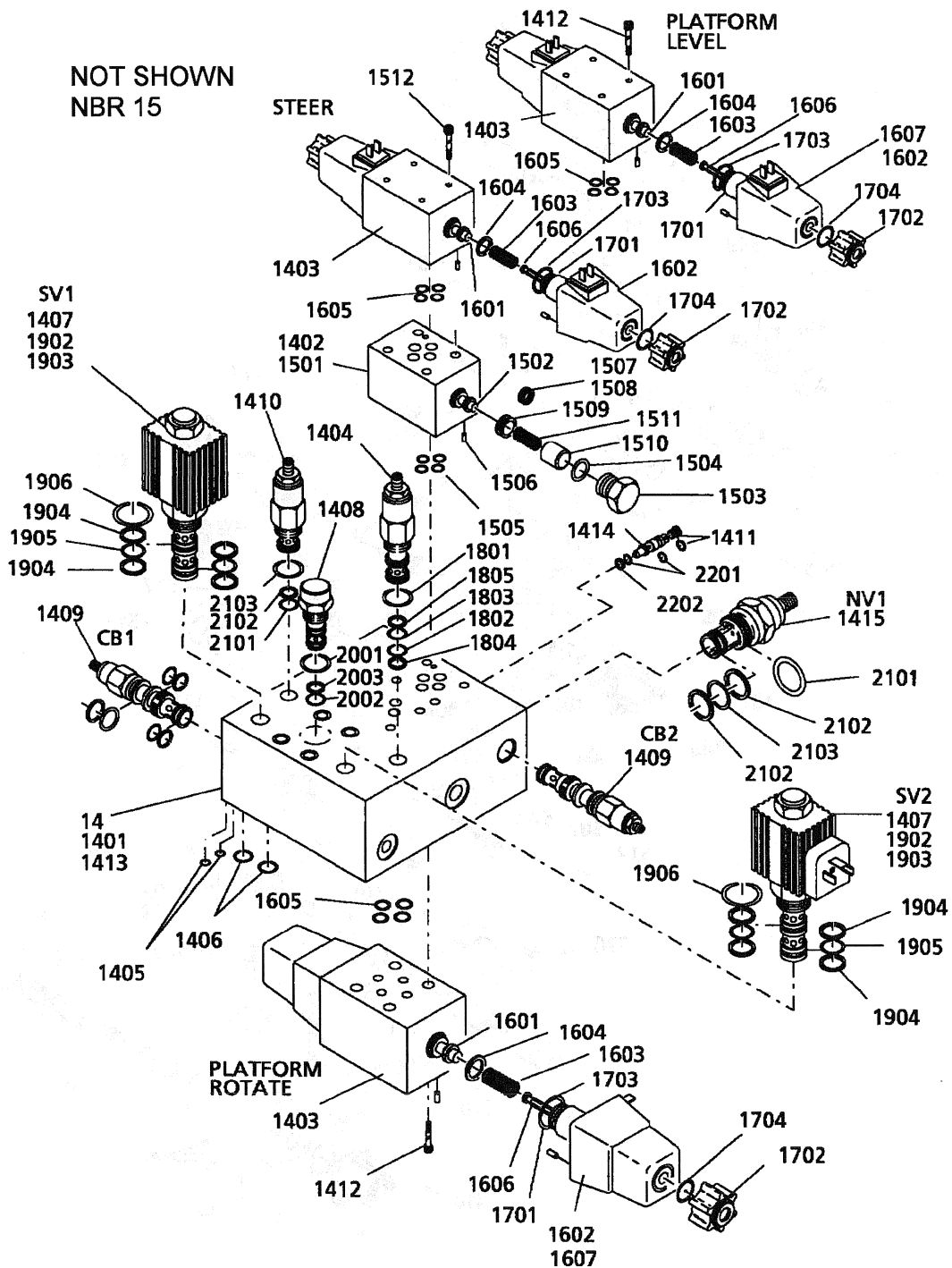
Revision: **A**

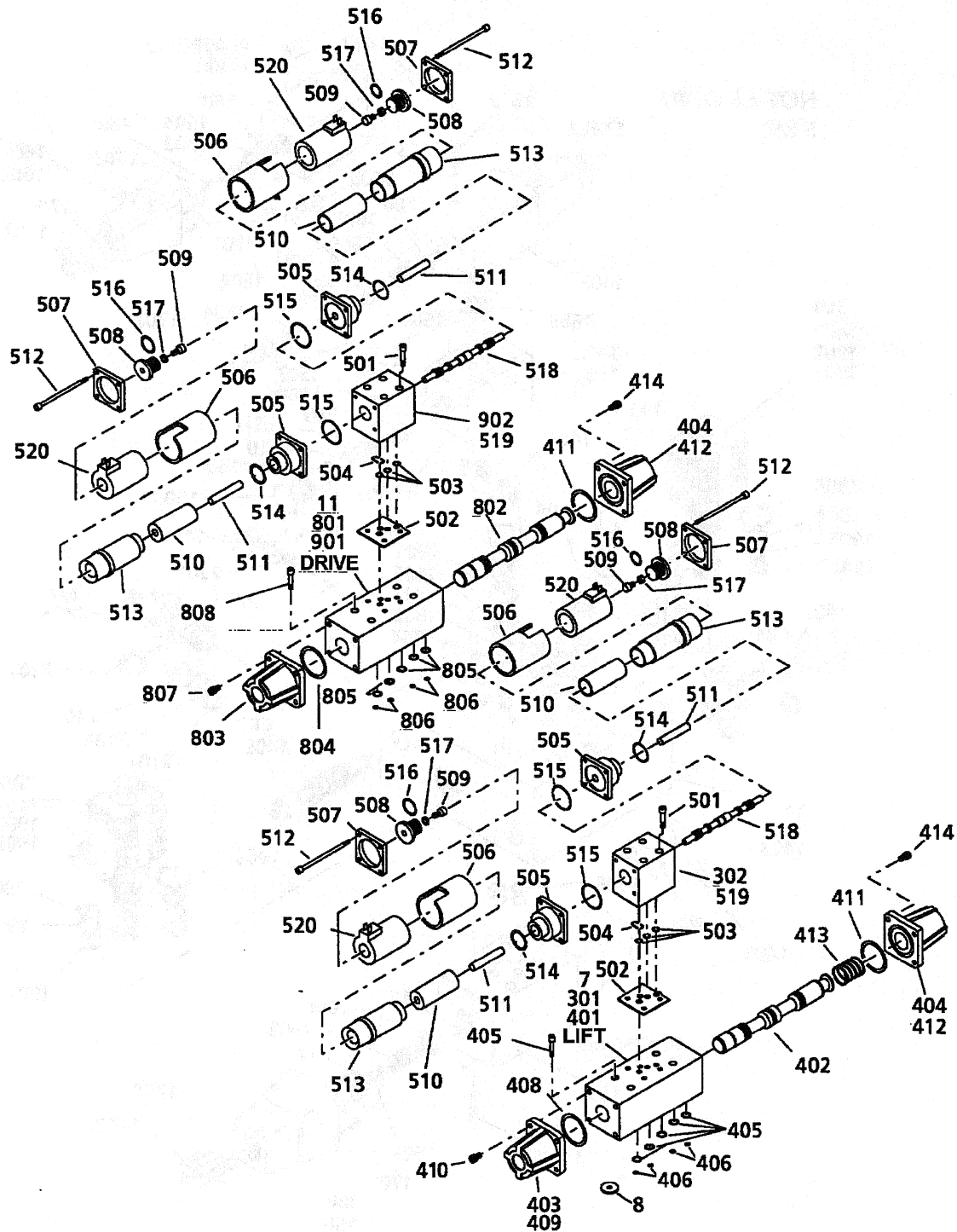
Item	FN	Part	Qty	Description
1	+	7926003166	1	VALVE ASSEMBLY - MANIFOLD
2	+	7437000112	1	FILTER ASSEMBLY - OIL RETURN
3	+	7437000740	1	FILTER ASSEMBLY - HYDRAULIC
4	+	7632000155	1	POWER PACK ASSEMBLY - D.C.
5		7445060643	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755906002	1	O-RING
6		7445080845	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755908002	1	O-RING
7		7445040443	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755904002	1	O-RING
8		7112160550	2	BOLT, HEX 3/8"-16 NC X 5/8" - GRD 2
9		7950160050	18	LOCKWASHER, 3/8" I.D.
10		7112161050	7	REPLACED BY 7115161050 3/8"-16 NC X 1 1/4"-GRD 2
11		7112160750	4	USE 7115160750 CAP SCREW 3/8" - 16 N.C. X 7/8" GRADE 5
12		7950160161	17	FLATWASHER, 3/8" I.D.
13		7115161850	4	CAP SCREW 3/8" - 16 N.C. X 2 1/4" GRADE 5
14		7660160000	8	NUT, HEX 3/8" - 16 N.C.
15		7300000184	1	CLAMP, MUFFLER 5" I.D.
16		6184001458	1	BRACKET, SUPPORT

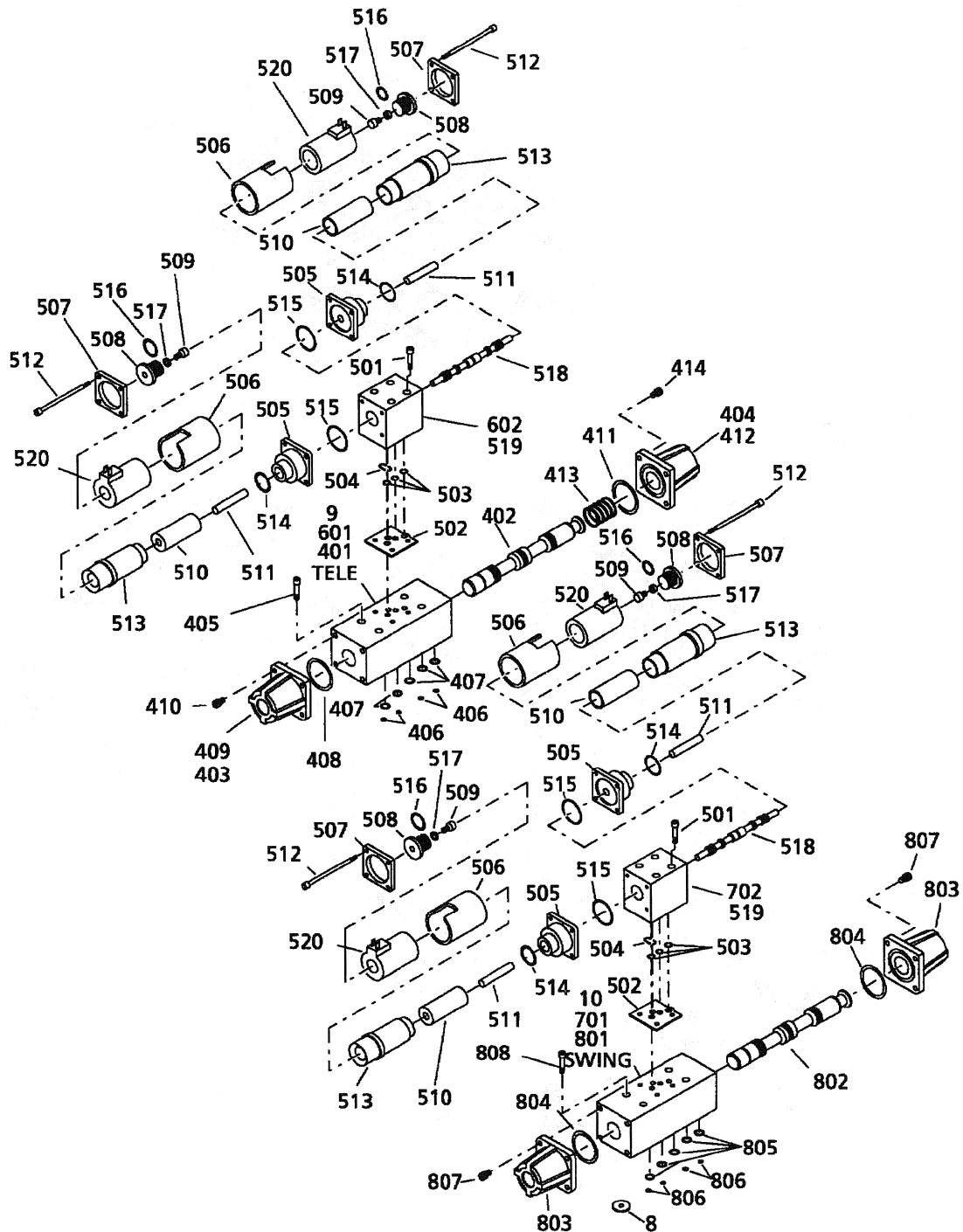
+ SEE FURTHER BREAKDOWN THIS GROUP

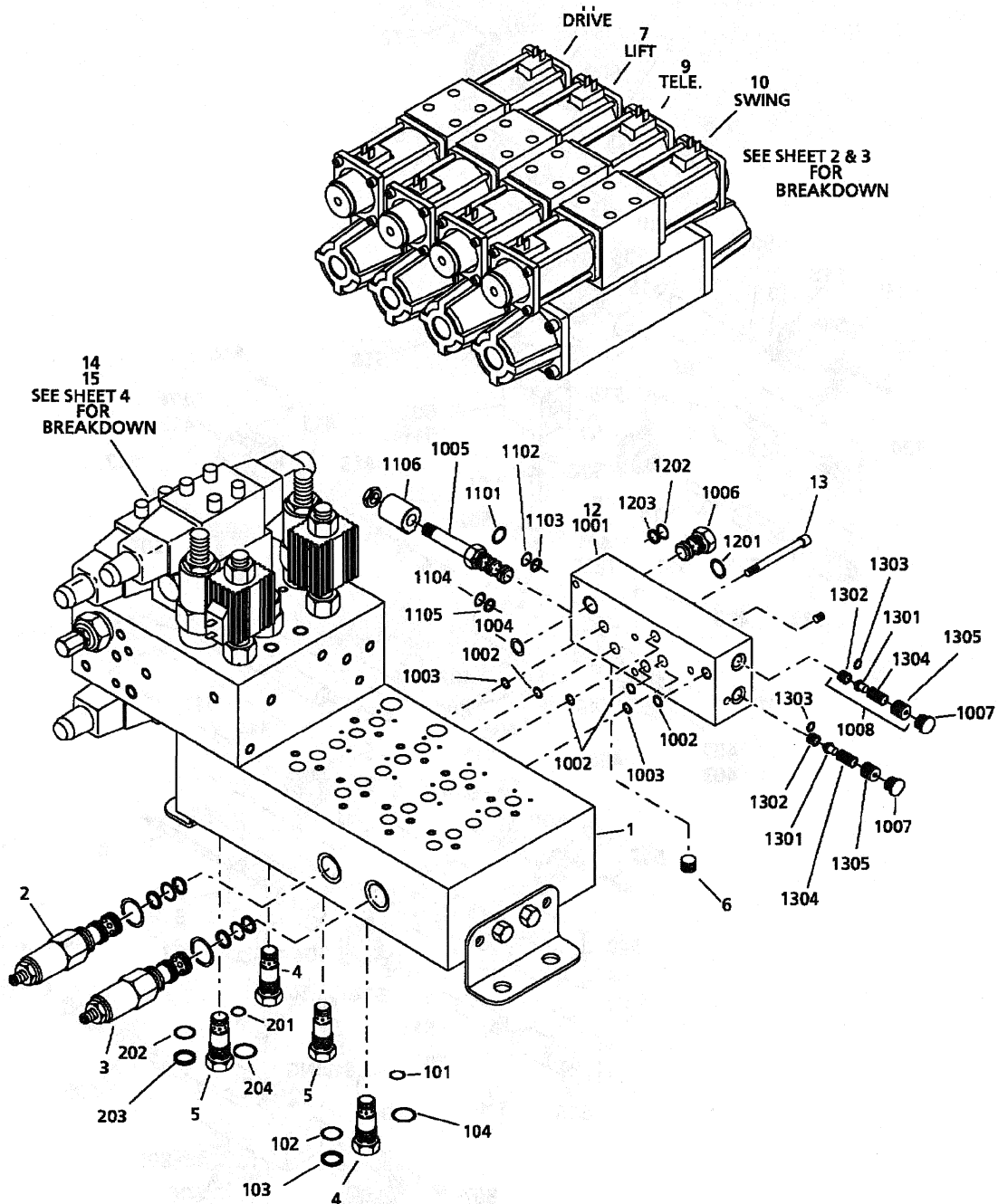
Manitowoc Crane Group

Notes









Manitowoc Crane Group

Description

VALVE ASSEMBLY - MANIFOLD

Assembly No.

7926003166

Revision:

Item	FN	Part	Qty	Description
1	#	NS	1	NOT SERVICED MANIFOLD
2		9926109007	1	VALVE, CARTRIDGE INCLUDES THE FOLLOWING PARTS
		9752100996	1	KIT, REPAIR
3		9926109008	1	VALVE,RELIEF INCLUDES THE FOLLOWING PARTS
		9926106806	1	KIT, SEAL
4		9926102773	2	VALVE, CARTRIDGE INCLUDES THE FOLLOWING PARTS
		9752101179	1	KIT, REPAIR
5		9926102772	2	VALVE, CARTRIDGE INCLUDES THE FOLLOWING PARTS
		9752101179	1	KIT, REPAIR
6		9926106191	1	PLUG, ORIFICE (.030)
7		9926102768	1	BODY/PLUG SUB-ASS'Y. INCLUDES THE FOLLOWING PARTS
		9752101292	1	KIT, SEAL
8		9926103505	2	DISC - .1406 THICKNESS
9		9926103500	1	VALVE ASSEMBLY INCLUDES THE FOLLOWING PARTS
		9752101206	1	KIT, SEAL
10		9926103502	1	VALVE ASSEMBLY INCLUDES THE FOLLOWING PARTS
		9752101206	1	KIT, SEAL
11		9926103501	1	VALVE, CONTROL INCLUDES THE FOLLOWING PARTS
		9752101292	1	KIT, SEAL
12		9926105603	1	BLOCK, SIDE INCLUDES NBR 1001-1008, 1101-1106, 1201-1203, 1301-1305
13		9926108540	4	1/4"-20 X 1 3/4"
14		9926109009	1	MANIFOLD, SUB-ASSY., AUX. INCLUDES NBR 1401-2202
15		9926108537	4	CAP SCREW 5/16" - 18 N.C. X 3"
101	*	9926102746	2	O-RING (1 PER ASSEMBLY)
102	*	9926102747	2	O-RING (1 PER ASSEMBLY)

SERVICED AS AN ASSEMBLY ONLY

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Crane Group

Description

VALVE ASSEMBLY - MANIFOLD

Assembly No.

7926003166

Revision:

Item	FN	Part	Qty	Description
103	*	9926102751	2	RING, BACK-UP (1 PER ASSEMBLY)
104	*	9926102744	2	O-RING (1 PER ASSEMBLY)
201	*	9926102746	2	O-RING (1 PER ASSEMBLY)
202	*	9926102747	2	O-RING (1 PER ASSEMBLY)
203	*	9926102751	2	RING, BACK-UP (1 PER ASSEMBLY)
204	*	9926102744	2	O-RING (1 PER ASSEMBLY)
301		9926109092	1	BODY & PLUG ASSY INCLUDES NBR 401-408
302		9926106751	1	VALVE ASSY, SOLENOID INCLUDES THE FOLLOWING PARTS
		9752101257	1	KIT, SEAL
401	#	NS	2	NOT SERVICED BODY (1 PER ASSEMBLY)
402		9926107931	2	SPOOL (1 PER ASSEMBLY)
403		9926102766	2	CAP ASSEMBLY (1 PER ASSEMBLY) INCLUDES NBR 408-410
404		9926102765	2	CAP ASSEMBLY (1 PER ASSEMBLY) INCLUDES NBR 411-414
405		9926102767	8	CAP SCREW (4 PER ASSEMBLY)
406		7755008002	8	O-RING (4 PER ASSEMBLY)
407		7755015002	10	O-RING (5 PER ASSEMBLY)
408		9926102774	2	O-RING (1 PER ASSEMBLY)
409		9926102788	2	CAP, END (1 PER ASSEMBLY)
410	#	9926102775	8	SCREW (4 PER ASSEMBLY)

* REPAIR KIT AND/OR PART OF KIT

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Crane Group

Description
VALVE ASSEMBLY - MANIFOLD

Assembly No.
7926003166
Revision:

Item	FN	Part	Qty	Description
411		9926102774	2	O-RING (1 PER ASSEMBLY)
412		9926102788	2	CAP, END (1 PER ASSEMBLY)
413		9926102779	2	SPRING (1 PER ASSEMBLY)
414	#	9926102775	8	SCREW (4 PER ASSEMBLY)
501		9926102789	16	CAP SCREW #10 DIA X 1 1/4" LG
502		9926102781	4	PLATE, SEAL (1 PER ASSEMBLY)
503	*	7755009002	12	O-RING (3 PER ASSEMBLY)
504	*	7755014002	4	O-RING (1 PER ASSEMBLY)
505		9926108174	8	ARMATURE, FEMALE (2 PER ASSEMBLY)
506		9926107547	8	CASE, SOLENOID (2 PER ASSEMBLY)
507		9926107534	8	PLATE, END (2 PER ASSEMBLY)
508		9926107525	8	PLUG, END (2 PER ASSEMBLY)
509		9926107537	8	PIN (2 PER ASSEMBLY)
510		9926108175	8	ARMATURE, MALE (2 PER ASSEMBLY)
511		9926108176	8	PIN, PUSH (2 PER ASSEMBLY)
512		9926103482	32	SCREW (8 PER ASSEMBLY)
513		9926108177	8	TUBE (2 PER ASSEMBLY)
514	*	7755017002	4	O-RING (1 PER ASSEMBLY)
515		7755121002	4	O-RING (1 PER ASSEMBLY)
516	*	7755908002	12	O-RING (3 PER ASSEMBLY)

SERVICED AS AN ASSEMBLY ONLY

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Crane Group

Description

VALVE ASSEMBLY - MANIFOLD

Assembly No.

7926003166

Revision:

Item	FN	Part	Qty	Description
517	*	9926104063	8	O-RING
518	#	NS	4	NOT SERVICED SPOOL (1 PER ASSEMBLY)
519	#	NS	4	NOT SERVICED BODY (1 PER ASSEMBLY)
520	#	9926103487	4	COIL, 12 VOLT
601		9926109093	1	VALVE ASSEMBLY INCLUDES NBR 401-408
602		9926106751	1	VALVE ASSY, SOLENOID INCLUDES THE FOLLOWING PARTS
		9752101257	1	KIT, SEAL
701		9926109094	1	BODY & PLUG ASSY INCLUDES NBR 801-808
702		9926106751	1	VALVE ASSY, SOLENOID INCLUDES THE FOLLOWING PARTS
		9752101257	1	KIT, SEAL
801	#	NS	2	NOT SERVICED BODY (1 PER ASSEMBLY)
802	#	NS	2	NOT SERVICED SPOOL (1 PER ASSEMBLY)
803		9926102788	4	CAP, END (2 PER ASSEMBLY)
804	*	7755026002	4	O-RING (2 PER ASSEMBLY)
805	*	7755015002	10	O-RING (5 PER ASSEMBLY)
806	*	7755008002	8	O-RING (4 PER ASSEMBLY)
807	#	9926102775	16	SCREW (8 PER ASSEMBLY)
808		9926102767	8	CAP SCREW (4 PER ASSEMBLY)
901		9926109095	1	BODY & PLUG ASSY INCLUDES NBR 801-808
902		9926106751	1	VALVE ASSY, SOLENOID INCLUDES THE FOLLOWING PARTS
		9752101257	1	KIT, SEAL

* REPAIR KIT AND/OR PART OF KIT

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Crane Group

Description

VALVE ASSEMBLY - MANIFOLD

Assembly No.

7926003166

Revision:

Item	FN	Part	Qty	Description
1001	#	NS	1	NOT SERVICED BODY
1002	*	9926102745	4	O-RING
1003	*	9926105613	2	O-RING
1004	*	9926102783	1	O-RING
1005		9926105614	1	VALVE ASSEMBLY INCLUDES THE FOLLOWING PARTS
		9926106062	1	COIL
		9752101287	1	KIT, SEAL
		9926110863	1	CARTRIDGE
1006		9926105619	1	VALVE, CHECK INCLUDES THE FOLLOWING PARTS
		9752101285	1	SEAL KIT
1007		9926102762	2	PLUG (SAE #5) INCLUDES THE FOLLOWING PARTS
		7755905002	1	O-RING
1008		9926104088	2	VALVE ASSEMBLY INCLUDES THE FOLLOWING PARTS
		7755903002	1	O-RING
1101	*	9926105615	1	O-RING
1102	*	9926102744	1	O-RING
1103	*	9926105616	1	RING, BACK-UP
1104	*	9926105618	1	O-RING
1105	*	9926105617	1	RING, BACK-UP
1106		9926106062	1	COIL
1201	*	9926102743	1	O-RING
1202	*	9926105624	1	O-RING
1203	*	9926105616	1	RING, BACK-UP
1301		9926104053	2	POPPET
1302		9926104054	2	SEAT
1303		7755903002	2	O-RING
1304		9926104052	2	SPRING
1305		9926104055	2	SCREW, SET
1401	#	NS	1	NOT SERVICED BODY
1402		9926109010	1	VALVE, CHECK INCLUDES THE FOLLOWING PARTS
		9752101332	1	KIT, SEAL

SERVICED AS AN ASSEMBLY ONLY

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Crane Group

Description

VALVE ASSEMBLY - MANIFOLD

Assembly No.

7926003166

Revision:

Item	FN	Part	Qty	Description
1403		9926110519	3	VALVE ASSEMBLY - DIRECTIONAL INCLUDES THE FOLLOWING PARTS
		9752101286	1	KIT, SEAL
1404		9926108885	1	VALVE, 150 PSI CHECK INCLUDES THE FOLLOWING PARTS
		9926106806	1	KIT, SEAL
1405		7755008002	2	O-RING
1406		7755115002	2	O-RING
1407		9926110847	2	CARTRIDGE AND COIL ASSEMBLY INCLUDES THE FOLLOWING PARTS
		9926107771	1	COIL
		9926106806	1	KIT, SEAL
		9926109104	1	CARTRIDGE
1408		9926109012	1	CARTRIDGE, FLOW INCLUDES THE FOLLOWING PARTS
		9752100996	1	KIT, REPAIR
1409		9926109013	2	CARTRIDGE BALANCE 3000 PSI
1410		9926109014	1	VALVE, RELIEF - 2700 PSI INCLUDES THE FOLLOWING PARTS
		9752100996	1	KIT, REPAIR
1411		9921602758	1	PLUG 7755903002 O-RING .301" I.D.
1412		7110101005	8	CAP SCREW 3/16" - 24 N.C. X 1 1/4" GRADE 1
1413		9926108571	1	KIT, BOLT
1414		9926102761	1	VALVE ASSY - SHUTTLE INCLUDES THE FOLLOWING PARTS
		9752101102	1	KIT, SEAL
1415		9926108883	1	VALVE, NEEDLE INCLUDES THE FOLLOWING PARTS
		9752100996	1	KIT, REPAIR
1501	#	NS	1	NOT SERVICED BODY
1502		9926109015	1	PISTON
1503		9926109016	2	CAP, END
1504		7755910002	2	O-RING
1505		7755120000	4	O-RING

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Crane Group

Description

VALVE ASSEMBLY - MANIFOLD

Assembly No.

7926003166

Revision:

Item	FN	Part	Qty	Description
1506		9926108340	1	PIN, ROLL
1507		7755014000	2	O-RING
1508		7755014609	2	RING, BACK-UP
1509		9926109017	2	SEAT
1510		9926109018	2	POPPET
1511		9926109021	2	SPRING
1512		9926108571	1	KIT, BOLT
1601	#	NS	3	NOT SERVICED SPOOL (1 PER ASSEMBLY)
1602		9926106294	6	SOLENOID ASSY (2 PER ASSEMBLY) INCLUDES NBR 1701-1704
1603		9926106296	6	SPRING (2 PER ASSEMBLY)
1604		9926106297	6	WASHER (2 PER ASSEMBLY)
1605		9926106089	12	O-RING (4 PER ASSEMBLY)
1606		9926106098	6	PLUG (2 PER ASSEMBLY)
1607		9926106095	3	O-RING (1 PER ASSEMBLY)
1701	#	NS	6	NOT SERVICED TUBE (2 PER ASSEMBLY)
1702		9926106094	6	RETAINER (2 PER ASSEMBLY)
1703		9926106091	6	GASKET (2 PER ASSEMBLY)
1704		9926106090	6	O-RING (2 PER ASSEMBLY)
1801		7755910002	1	O-RING
1802		7755014000	1	O-RING
1803		7755015000	1	O-RING
1804		9926106194	1	RING, BACK-UP
1805		9926106805	1	RING, BACK-UP
1902		9926107771	2	COIL

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Crane Group

Description

VALVE ASSEMBLY - MANIFOLD

Assembly No.

7926003166

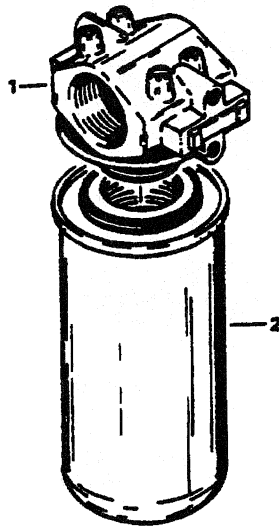
Revision:

Item	FN	Part	Qty	Description
1903		9926109104	2	CARTRIDGE (1 PER ASSEMBLY)
1904		7755008609	4	RING, BACK-UP (2 PER ASSEMBLY)
1905		7755014000	2	O-RING (1 PER ASSEMBLY)
1906		7755910002	2	O-RING
2001		7755910002	1	O-RING
2002		7755014000	1	O-RING
2003		7755015000	1	O-RING
2101		7755014000	1	O-RING
2102		9926106197	2	RING, BACK-UP
2103		7755910002	1	O-RING
2201	*	7755008002	2	O-RING
2202	*	7755008609	1	RING, BACK-UP
2203	*	9752100656	0	KIT, REPAIR
2203	*	9752100656	0	KIT, REPAIR
2203	*	9752100656	0	KIT, REPAIR
2203	*	9752100656	0	KIT, REPAIR
2203		9752101169	0	KIT, REPAIR INCLUDES NBR 2001-2003 INCLUDES NBR 1801-1805
2203		9752101169	0	KIT, REPAIR INCLUDES NBR 2001-2003 INCLUDES NBR 1801-1805
2203		9926106695	0	KIT, SEAL INCLUDES NBR 2101-2103
2203		9926106806	0	KIT, SEAL INCLUDES NBR 1904-1906

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Crane Group

Notes



Manitowoc Crane Group

Description

FILTER ASSEMBLY - OIL RETURN

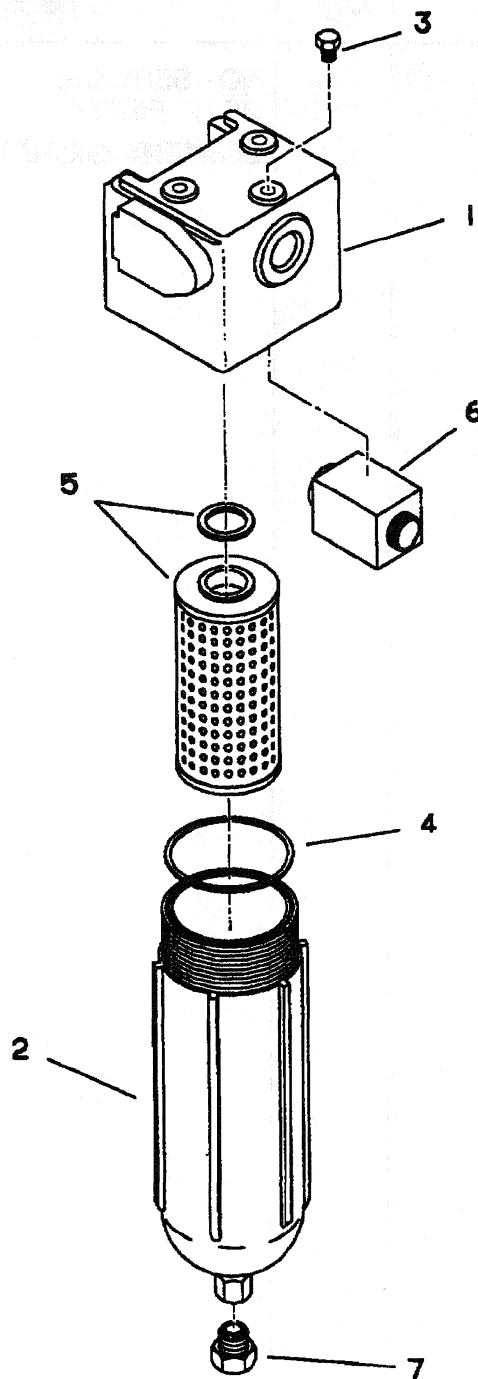
Assembly No.

7437000112

Revision:

Item	FN	Part	Qty	Description
1	#	NS	1	NOT SERVICED HEAD, FILTER
2		9304100081	1	ELEMENT, OIL RETURN

SERVICED AS AN ASSEMBLY ONLY



Manitowoc Crane Group

Description

FILTER ASSEMBLY - HYDRAULIC

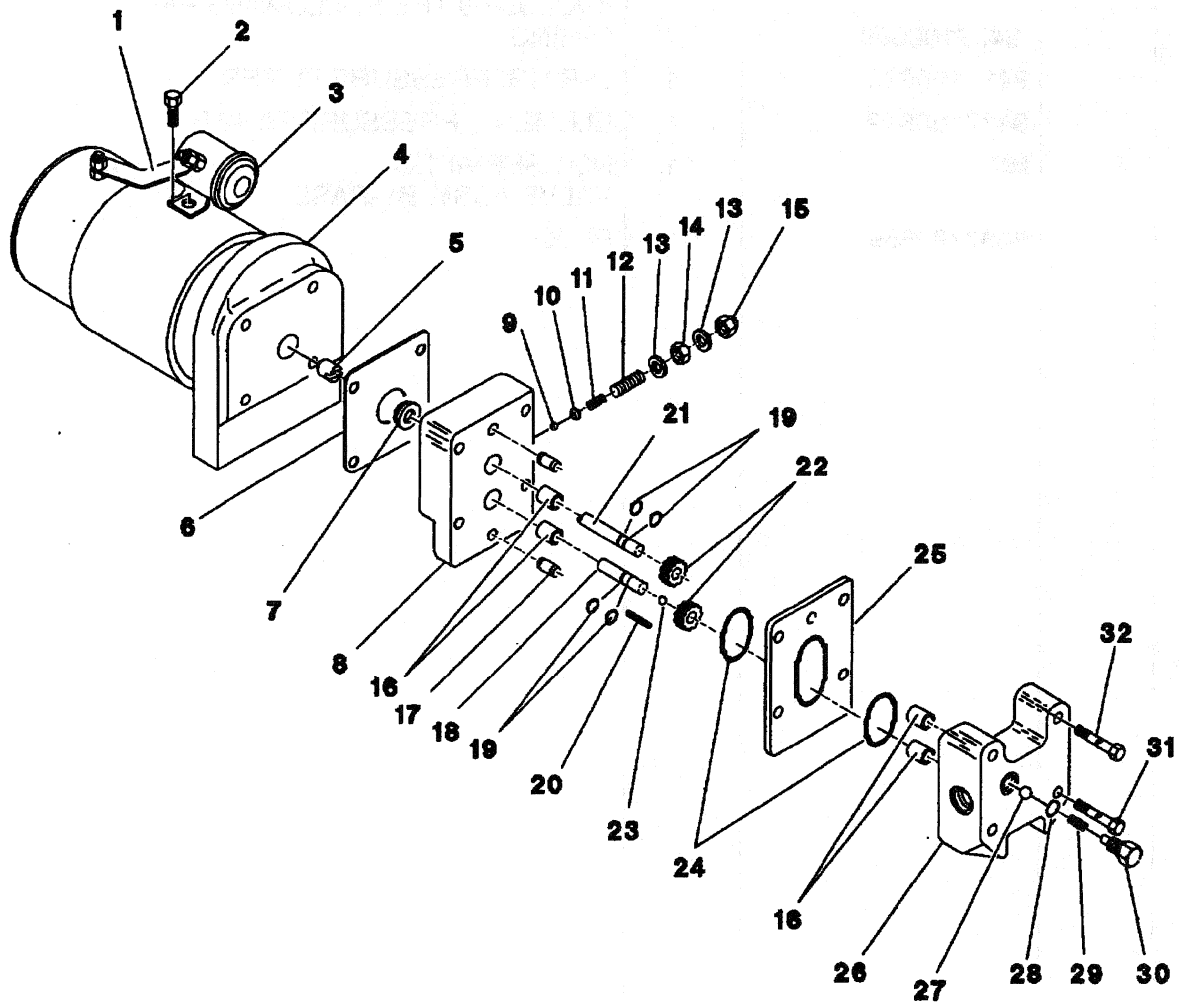
Assembly No.

7437000740

Revision:

Item	FN	Part	Qty	Description
1		9926110189	1	HEAD
2		9437100657	1	BOWL
3		9437100627	1	PLUG W/O-RING
				INCLUDES THE FOLLOWING PARTS
		9437100809	1	O-RING
4		9437100625	1	O-RING, PRESSURE FILTER
5		9437100642	1	ELEMENT, PRESSURE FILTER
6	#	NS	1	NOT SERVICED
				VALVE ASSY, BY-PASS
7		9437100659	1	PLUG

SERVICED AS AN ASSEMBLY ONLY



Manitowoc Crane Group

Description

POWER PACK ASSEMBLY - D.C.

Assembly No.

7632000155

Revision:

Item	FN	Part	Qty	Description
1		9632101433	1	BUS, BAR
2		9632101431	2	CAP SCREW
3		9632101432	1	SWITCH, SOLENOID
4		9632101429	1	MOTOR
5		9632101372	1	COUPLING
6		9632101430	1	GASKET
7		9722102847	1	OIL SEAL
8		9632101417	1	PLATE, DRIVE INCLUDES NBR 16
9		9632101426	1	BALL
10		9632101428	1	SPRING, GUIDE
11		9632101427	1	SPRING
12		9632101377	1	SCREW, ADJUSTMENT
13		9632101375	2	GASKET, METAL
14		9632101376	1	NUT
15		9632101374	1	NUT, ACORN
16	#	NS	4	NOT SERVICED BEARING INCLUDED IN NBR 8 & 26
17		9632101416	2	PIN, DOWEL
18		9632101415	1	SHAFT
19		9722102838	4	RING, RETAINING
20		9632101423	1	KEY, DOWEL
21		9632101422	1	SHAFT, DRIVE
22		9722102836	2	GEAR
23		9722102840	1	BALL
24		9722102839	2	O-RING
25		9632101436	1	CASE
26		9632101418	1	PLATE, END INCLUDES NBR 16
27		9632101367	1	BALL
28		9632101420	1	WASHER
29		9632101421	1	SPRING
30		9632101419	1	CAP, VALVE
31		9632101424	2	CAP SCREW

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Crane Group

Description

POWER PACK ASSEMBLY - D.C.

Assembly No.

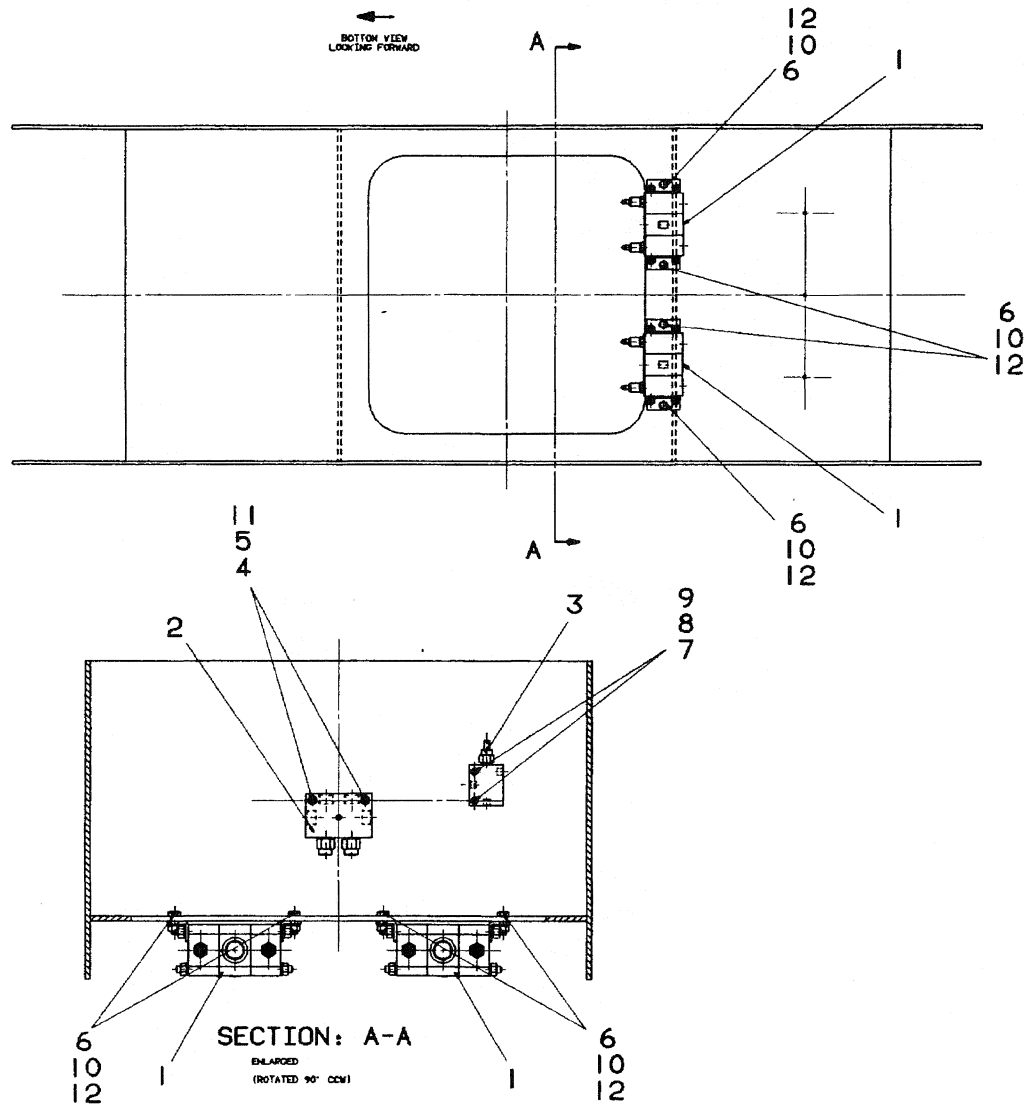
7632000155

Revision:

Item	FN	Part	Qty	Description
32		9632101425	2	CAP SCREW
33		9632101435	1	PUMP ASSEMBLY INCLUDES NBR 7 THRU 32

Manitowoc Crane Group

Notes



Manitowoc Crane Group

Description

VALVE INSTALLATION - PROPEL

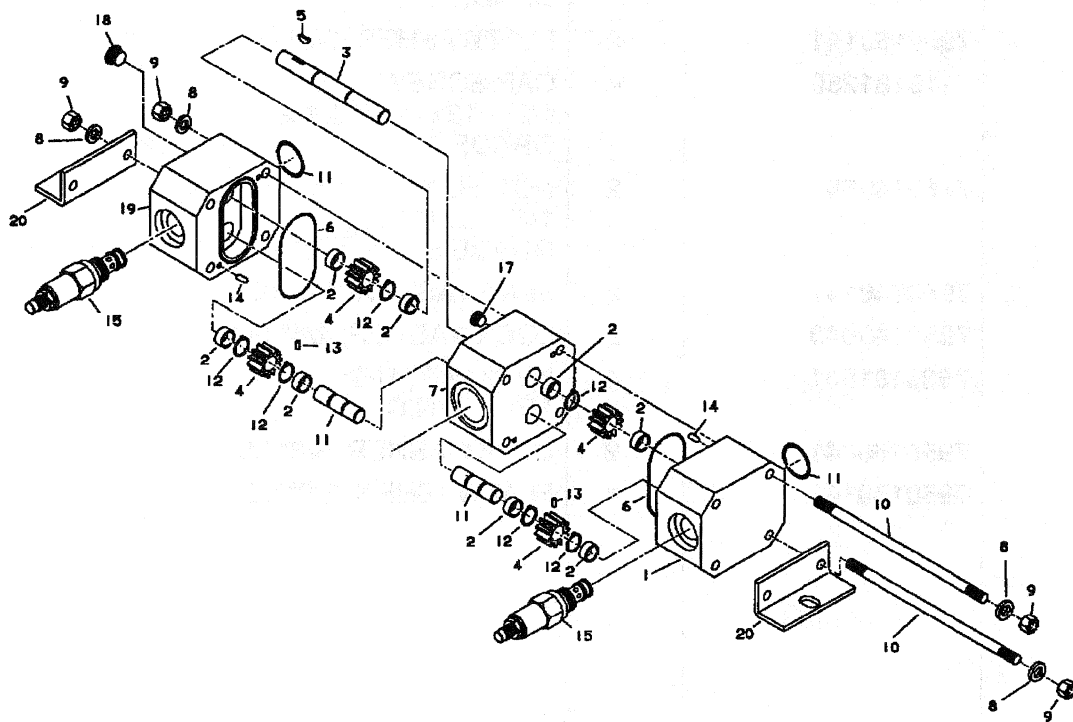
Assembly No.

2145100722

Revision: **A**

Item	FN	Part	Qty	Description
1	+	7926003136	2	VALVE ASSEMBLY - FLOW DIVIDER
2	+	7926001981	1	VALVE ASSEMBLY - CONTROL
3	+	7926002028	1	VALVE ASSEMBLY - PRESSURE REDUCING/RELIEVING
4		7660160001	2	NUT, HEX 3/8" - 16 N.C. GRADE 5
5		7950160141	2	FLATWASHER, 3/8" I.D.
6		7115181250	4	CAP SCREW 1/2" - 13 N.C. X 1 1/2" GRADE 5
7		7660140001	2	NUT, HEX 1/4" - 20 N.C. GRADE 5
8		7950140141	2	FLATWASHER, 1/4" I.D.
9		7950140040	2	LOCKWASHER, 1/4" I.D.
10		7660181601	4	LOCKNUT, HEX 1/2" - 13 N.C.
11		7950160041	2	LOCKWASHER, 3/8" I.D.
12		7950180141	4	FLATWASHER, 1/2" I.D.

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Crane Group

Description

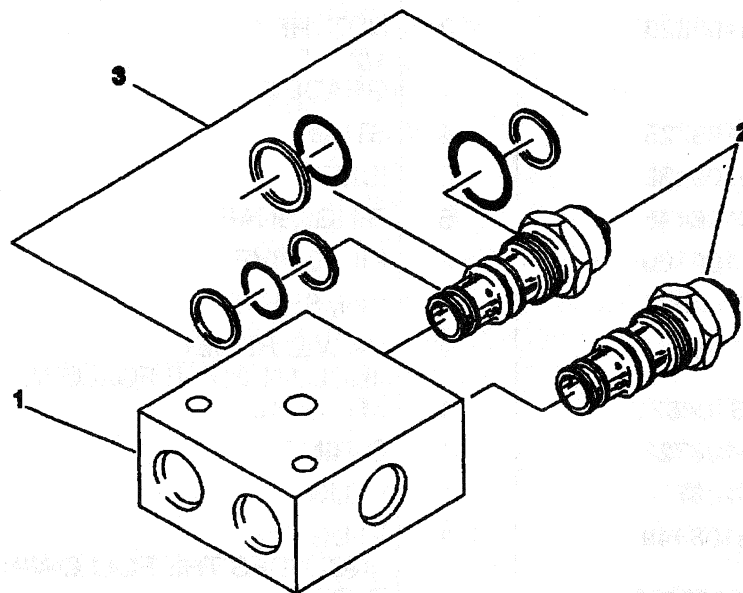
VALVE ASSEMBLY - FLOW DIVIDER

Assembly No.

7926003136

Revision:

Item	FN	Part	Qty	Description
1		9926108719	1	HOUSING, GEAR
2		9926108439	8	BEARING, NEEDLE
3		9926108721	1	SHAFT
4		9926108445	4	GEAR
5		9926108447	2	KEY
6		9926108443	2	O-RING
7		9926108720	1	HOUSING
8		9926108634	8	LOCKWASHER, 1/2" I.D.
9		9926108633	8	NUT, HEX 1/2" I.D. GRADE 8
10		9926108725	4	STUD
11		9926108438	2	IDLER
12		9926108446	6	RING, SNAP
13		9632102100	2	PIN, DRIVE
14		9722102931	4	PIN, SHEAR
15		9926108629	2	VALVE, RELIEF INCLUDES THE FOLLOWING PARTS
		9926108621	1	KIT, SEAL
16		9926108723	1	O-RING
17		9926108724	1	PLUG
18		9926108449	1	PLUG INCLUDES THE FOLLOWING PARTS
		7755908002	1	O-RING
19		9926108442	1	HOUSING, END
20		9926108451	2	BRACKET



Manitowoc Crane Group

Description

VALVE ASSEMBLY - CONTROL

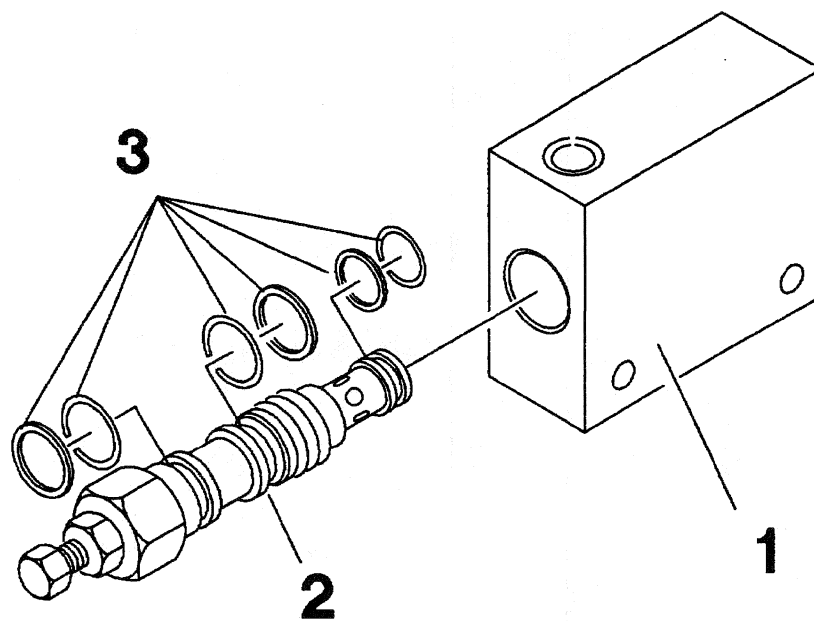
Assembly No.

7926001981

Revision:

Item	FN	Part	Qty	Description
1	#	NS	1	NOT SERVICED BODY
2		9926106257	2	CARTRIDGE
3		9926104148	2	KIT, REPAIR (1 PER CARTRIDGE)

SERVICED AS AN ASSEMBLY ONLY



Manitowoc Crane Group

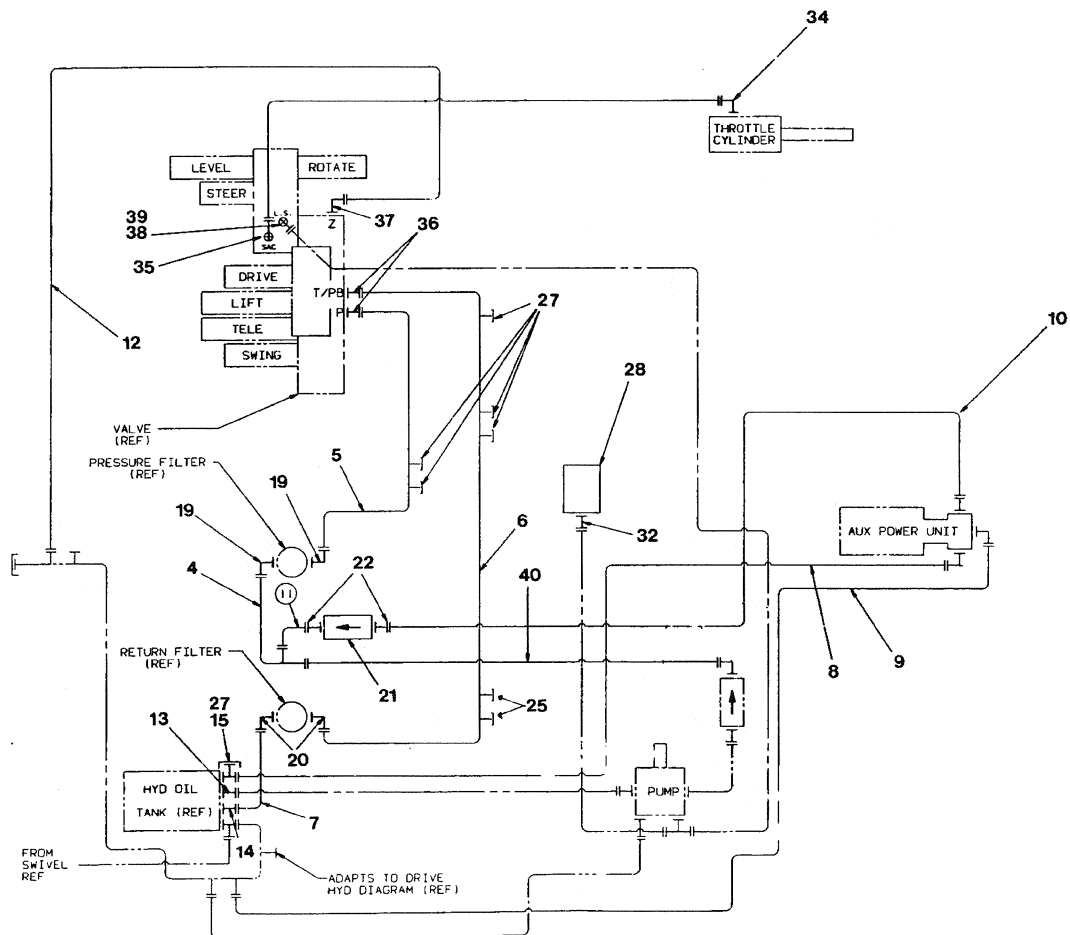
Description**VALVE ASSEMBLY - PRESSURE REDUCING/RELIEVING**Assembly No.**7926002028**

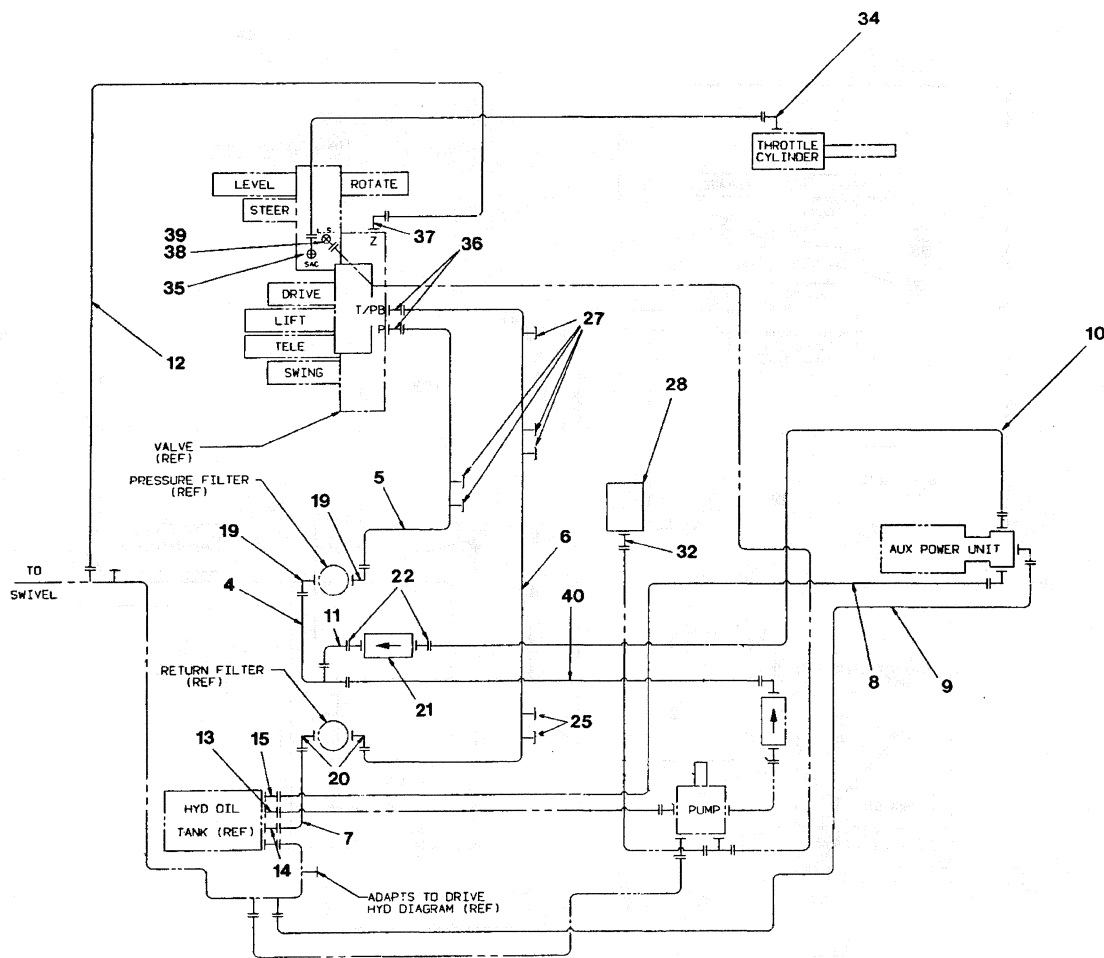
Revision:

Item	FN	Part	Qty	Description
1		NSS	1	BODY BODY
2		9926106169	1	CARTRIDGE
3		9926103434	1	KIT, SEAL

Manitowoc Crane Group

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Manitowoc Crane Group

Description

HYDRAULIC LINES INSTALLATION - SUPPLY, PRESSURE AND RETURN

Assembly No.

2145600657

Revision: **D**

Item	FN	Part	Qty	Description
4		7910009650	1	TUBE
5		7910011358	1	TUBE
6		7910013875	1	TUBE
7		7910013874	1	TUBE
8		7910015418	1	TUBE (DESIGN B)
9		7550102821	1	HOSE ASSY 1/4" I.D. X 28"
10		7910008763	1	TUBE
11		7910008764	1	TUBE
12		7910008755	1	TUBE
13		7445242419	1	CONNECTOR, MALE
14		7445161620	1	ELBOW, 90 DEGREE
15		7445080834	1	TEE (DESIGN B)
19		7445161645	2	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755916002	1	O-RING
20		7445161220	2	ELBOW, 90 DEGREE
21	#	7926000996	1	VALVE, CHECK
22		7445060619	2	ADAPTER, STRAIGHT
25		7445060618	2	NUT, CAP
27		7445080818	5	NUT, CAP
27		7445080818	6	NUT, CAP
28	#	7005000543	1	ACCUMULATOR
32		7445040645	1	ELBOW, 90 DEGREE MALE INCLUDES THE FOLLOWING PARTS
		7755906002	1	O-RING
34		7445040219	1	ADAPTER, STRAIGHT
35		7709000028	1	PLUG, SAE #4 INCLUDES THE FOLLOWING PARTS
		7755904002	1	O-RING
36		7445161643	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755916002	1	O-RING
37		7445040445	1	ELBOW, 90 DEGREE MALE INCLUDES THE FOLLOWING PARTS
		7755904002	1	O-RING

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Crane Group

Description

HYDRAULIC LINES INSTALLATION - SUPPLY, PRESSURE AND RETURN

Assembly No.

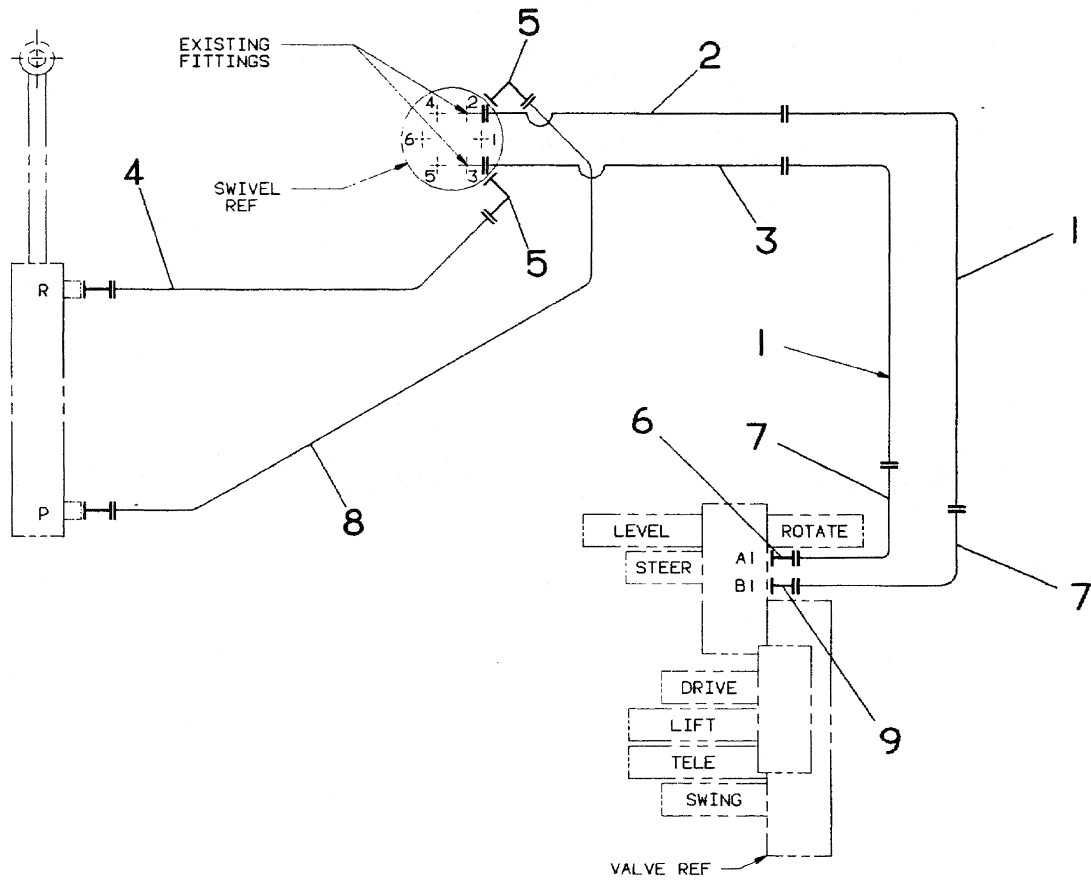
2145600657

Revision: D

Item	FN	Part	Qty	Description
38		7445040448	1	TEE
		7755904002	1	INCLUDES THE FOLLOWING PARTS
39		7445040418	1	O-RING
40		7550603160	1	NUT, CAP
				HOSE ASSY
				1" X 31"

Manitowoc Crane Group

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Manitowoc Crane Group

Description

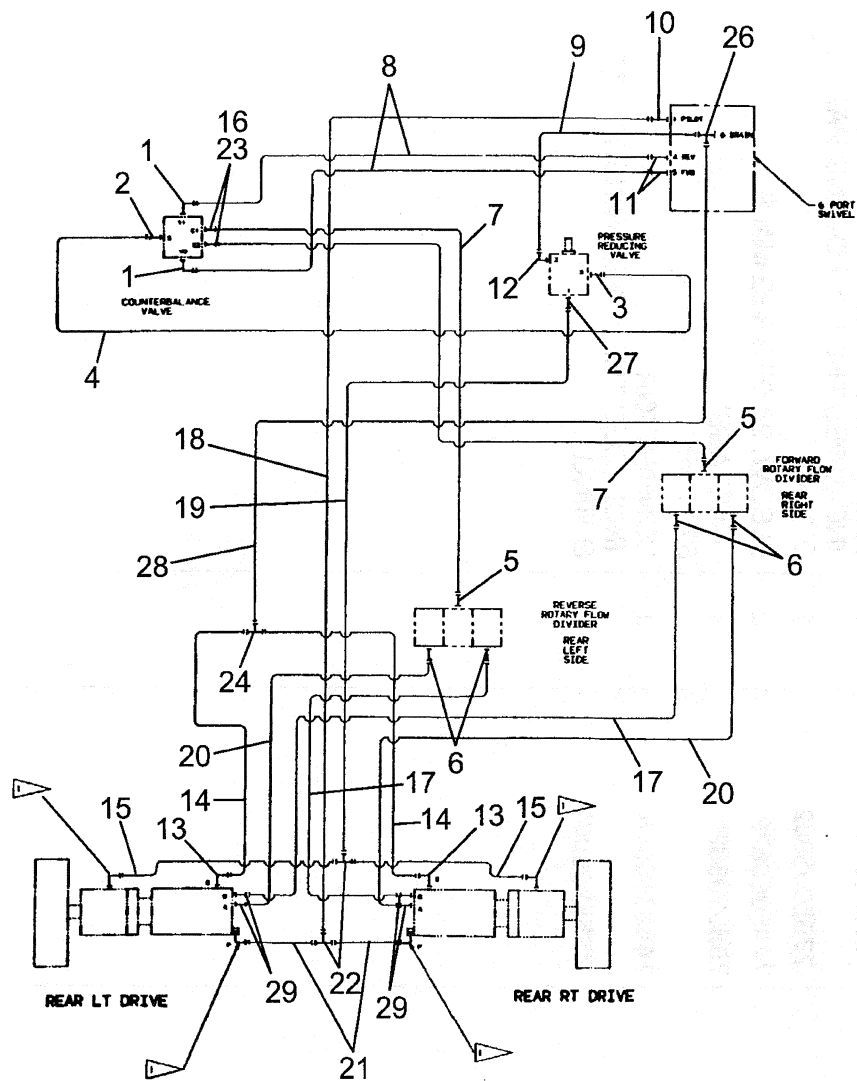
HYDRAULIC LINES INSTALLATION - STEER


Assembly No.

2154600565

Revision: #

Item	FN	Part	Qty	Description
1		7553036422	2	HOSE ASSY 3/8" I.D. X 36" LONG
2		7910008771	1	TUBE
3		7910008770	1	TUBE
4		7550205720	1	HOSE ASSY 3/8" X 57"
5		7445060645	2	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755906002	1	O-RING
6		7445060643	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755906002	1	O-RING
7		7445060672	2	ELBOW, 90 DEGREE MALE
8		7550206821	1	HOSE ASSY 3/8" X 68"
9		7445060644	1	CONNECTOR INCLUDES THE FOLLOWING PARTS
		7755906002	1	O-RING



NOTE:
 EXISTING FITTING

Manitowoc Crane Group

Description

HYDRAULIC LINES INSTALLATION - PROPEL

Assembly No.

2145600742

Revision: **C**

Item	FN	Part	Qty	Description
1		7447121208	2	ELBOW, 45 DEGREE MALE INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
		7755912002	1	O-RING
2		7447040403	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
3		7447040608	1	ELBOW, 45 DEGREE MALE INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755906002	1	O-RING
4		7555101260	1	HOSE ASSY 1/4" I.D. X 12"
5		7447121601	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
		7755916002	1	O-RING
6		7447081001	4	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755910002	1	O-RING
7		7555501864	2	HOSE ASSY 3/4" I.D. X 18"
8		7555505860	1	HOSE ASSY 3/4" I.D. X 58"
9		7555304201	1	HOSE ASSY 1/2" I.D. X 42"
10		7447040403	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
11		7447121203	2	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
		7755912002	1	O-RING
12		7447080603	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755906002	1	O-RING
13		7447081003	2	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING

Manitowoc Crane Group

Description

HYDRAULIC LINES INSTALLATION - PROPEL

Assembly No.

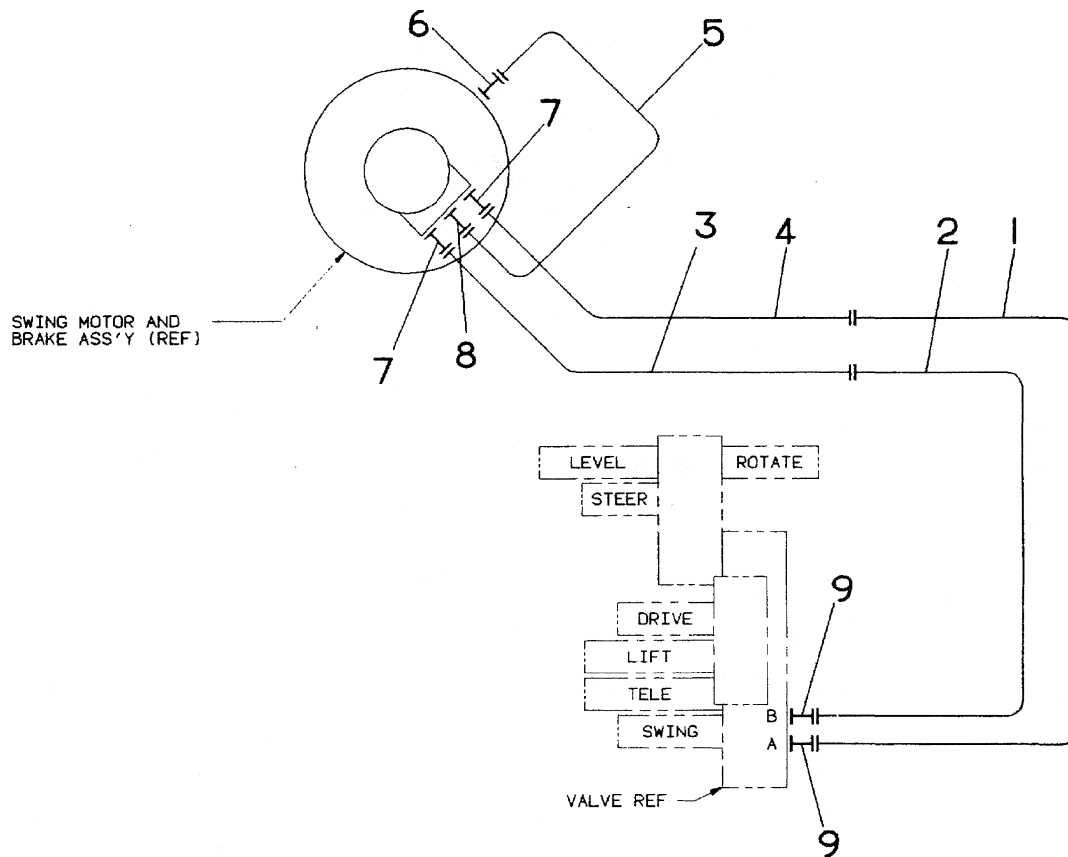
2145600742

Revision: **C**

Item	FN	Part	Qty	Description
		7755910002	1	O-RING
14		7555302500	2	HOSE ASSY 1/2" I.D. X 25"
15		7555103600	2	HOSE ASSY 1/4" I.D. X 36"
16		7447121201	2	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
		7755912002	1	O-RING
17		7555306060	2	HOSE ASSEMBLY 1/2" I.D.
18		7555107400	1	HOSE ASSY 1/4" I.D. X 74"
19		7555104700	1	HOSE ASSY 1/4" I.D. X 47"
20		7555304860	2	HOSE ASSY 1/2" I.D. X 48" LONG
21		7555102800	2	HOSE ASSY 1/4" I.D. X 28"
22		7447040411	2	TEE, UNION INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
23		7447121233	2	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
24		7447080811	1	TEE, UNION INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
26		7447080805	1	TEE, RUN INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
27		7447040601	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755906002	1	O-RING
28		7555306000	1	HOSE ASSY 1/2" I.D. X 60"
29		7447081601	4	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755916002	1	O-RING

Manitowoc Crane Group

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Manitowoc Crane Group

Description

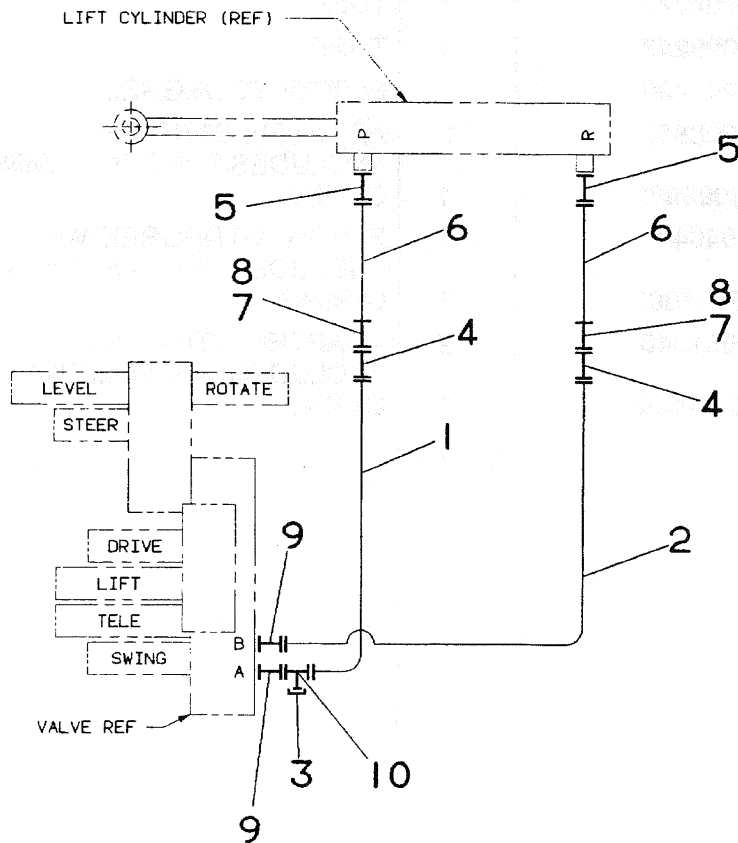
HYDRAULIC LINES INSTALLATION - SWING

Assembly No.

2154600564

Revision: **A**

Item	FN	Part	Qty	Description
1		7553041422	1	HOSE ASSY 3/8" X 41"
2		7553039422	1	HOSE ASSY 3/8" X 39"
3		7910008772	1	TUBE
4		7910008773	1	TUBE
5		7910009243	1	TUBE
6		7445040420	1	ELBOW, 90 DEGREE
7		7445060843	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755908002	1	O-RING
8		7445040445	1	ELBOW, 90 DEGREE MALE INCLUDES THE FOLLOWING PARTS
		7755904002	1	O-RING
9		7445061043	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755910002	1	O-RING



Manitowoc Crane Group

Description

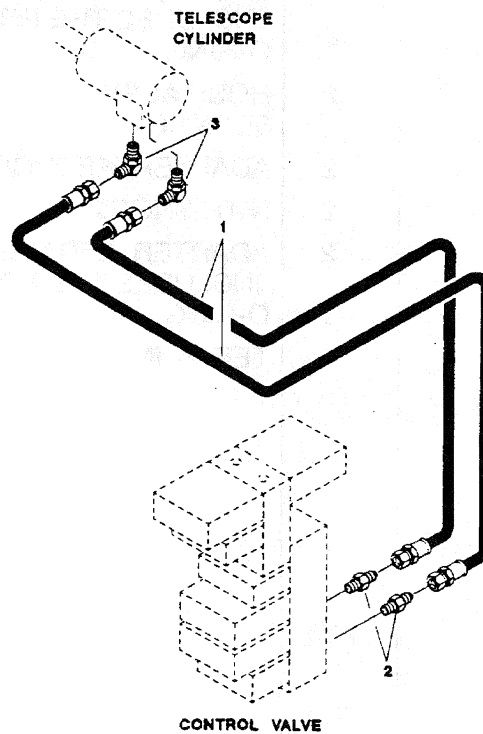
HYDRAULIC LINES INSTALLATION - LIFT

Assembly No.

2145600563

Revision: #

Item	FN	Part	Qty	Description
1		7553041542	1	HOSE ASSY 1/2" X 415"
2		7553033542	1	HOSE ASSY 1/2" I.D. X 33"
3		7445080818	1	NUT, CAP
4		7445080823	2	CONNECTOR
5		7445060845	2	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755908002	1	O-RING
6		7550206020	2	HOSE ASSY 3/8" X 60"
7		7445080639	2	ADAPTER, REDUCING
8		7445080842	2	NUT, SHORT
9		7445081043	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755910002	1	O-RING
10		7888000121	1	TEE, RUN



Manitowoc Crane Group

Description

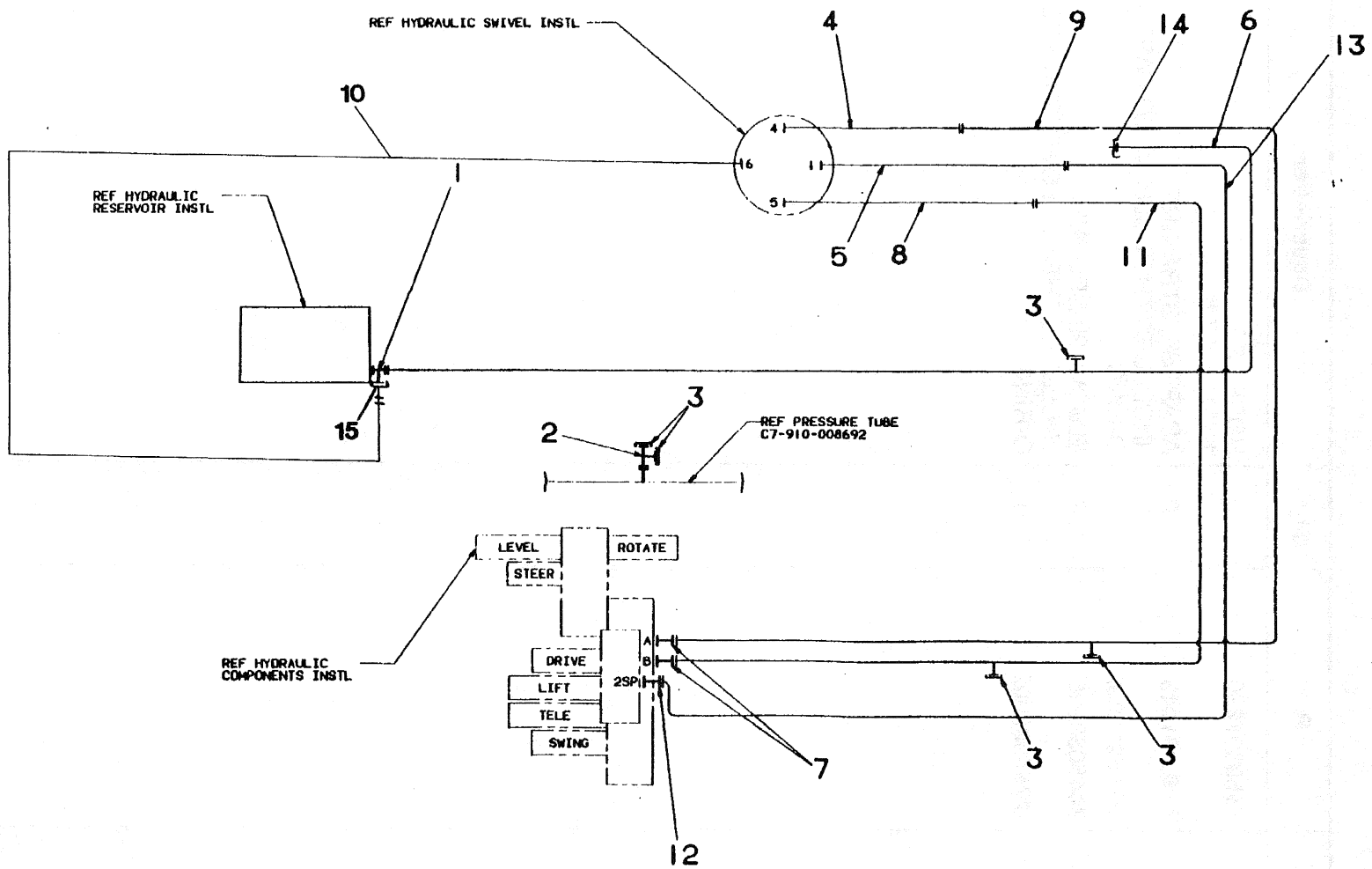
HYDRAULIC LINES INSTALLATION - TELESCOPE

Assembly No.

2145600012

Revision: **A**

Item	FN	Part	Qty	Description
1		7550307220	2	HOSE ASSY 1/2" I.D. X 72"
2		7445081043	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755910002	1	O-RING
3		7445080845	2	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755908002	1	O-RING



154600606

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Description

HYDRAULIC LINES INSTALLATION

Assembly No.

2154600606

Revision: #

Item	FN	Part	Qty	Description
1		7445080834	1	TEE
2		7888000120	1	TEE, FEMALE
3		7445060618	5	NUT, CAP
4		7910009611	1	TUBE
5		7910008774	1	TUBE
6		7910013160	1	TUBE
7		7445121043	2	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755910002	1	O-RING
8		7910009610	1	TUBE
9		7910009608	1	TUBE
10		7553074542	1	HOSE ASSY 1/2" X 74"
11		7910009609	1	TUBE
12		6443000723	1	CONNECTOR, MALE INCLUDES THE FOLLOWING PARTS
		7755904000	1	O-RING
13		7553040203	1	HOSE ASSY 1/4" X 40"
14		7445080818	1	NUT, CAP
15		7445080872	1	ELBOW, 90 DEGREE

Manitowoc Crane Group

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From - BRACKET

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To - CAP SCREW

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7482000040	1	1	1	1	FUSE, 200 AMP	218
7486000628	0	0	1	1	GAUGE, OIL LEVEL	117
7486001811	0	0	1	1	VOLTMETER	61
7486002606	0	0	1	1	HOURLMETER	62
7506000001	0	0	2	2	GROMMET	239
7506000006	0	0	2	4	GROMMET	62
7506000019	0	0	0	1	GROMMET	231
7550102620	0	0	0	1	HOSE ASSY	142
7550102821	0	0	0	1	HOSE ASSY	283
7550104220	0	0	0	1	HOSE ASSY	142
7550202421	0	0	0	2	HOSE ASSY	133, 142
7553033542	0	0	0	1	HOSE ASSY	295
7553036422	0	0	0	2	HOSE ASSY	287
7553039422	0	0	0	1	HOSE ASSY	293
7553074542	0	0	0	1	HOSE ASSY	299
7555101260	0	0	0	1	HOSE ASSY	289
7555102800	0	0	0	2	HOSE ASSY	290
7555103600	0	0	0	2	HOSE ASSY	290
7555104700	0	0	0	1	HOSE ASSY	290
7555302500	0	0	0	2	HOSE ASSY	290

From - 7445161620

To - 7555302500

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7555306000	0	0	0	1	HOSE ASSY	290
7557000031	0	0	1	2	RESISTOR	61
7557000054	0	0	1	1	RESISTOR, 20 OHMS	63
7581000052	1	1	1	1	BULB	61
7632000082	0	0	0	10	MOTOR ASSEMBLY - ORBIT	93, 97
7632000134	0	0	0	9	MOTOR ASSEMBLY	161
7689000036	0	0	0	2	PIN, CLIP	10
7689000503	1	1	3	16	PLUG, SEALING	31, 33, 69, 85
7689000704	1	1	3	148	PIN	31, 33, 69, 85, 139, 155, 225
7689000797	1	1	3	4	PIN	155
7690001210	0	0	0	1	PIN, COTTER	143
7690051610	0	0	0	2	PIN, COTTER	11
7690052410	0	0	0	1	PIN, COTTER	209
7690144010	0	0	0	2	PIN, COTTER	187, 189
7690164810	0	0	0	1	PIN, COTTER	43
7690182400	0	0	0	4	PIN, CLEVIS	121
7709000031	0	0	1	2	PLUG, SAE #6	29
7709000038	0	0	1	2	PLUG, O-RING	49
7709000157	0	0	1	1	PLUG, MAGNETIC	117
7709000809	1	1	3	1	PLUG	155
7709000814	1	1	3	2	PLUG	225
7734000113	0	0	0	4	PLANETARY GEAR REDUCER	93, 97
7750000057	0	0	1	1	SOLENOID	218
7750000071	0	0	1	2	RELAY	62, 78
7750000085	0	0	1	1	SOLENOID ASSY	143
7750000114	0	0	1	3	RELAY, HOSTILE ENVIRONMENT	140
7750000695	0	0	1	21	RELAY, 12 VOLT DC	67, 77, 79
7750000697	0	0	1	14	RELAY, 12 VOLT DC	63, 67, 77, 209
7753000150	0	0	2	2	RING, WEAR	19
7753000199	0	0	2	2	RING, WEAR	29, 45
7754000096	0	0	2	2	O-RING	101, 109
7754000097	0	0	2	4	O-RING	101, 109
7754000099	0	0	2	2	RING, BACK-UP	101, 109
7754000100	0	0	2	4	RING, BACK-UP	101, 109
7754000123	0	0	2	3	O-RING, LOW TEMPERATURE	29, 45, 185
7754000135	0	0	2	1	O-RING, LOW TEMPERATURE	49
7754000140	0	0	2	2	O-RING, LOW TEMPERATURE	19, 49
7754000144	0	0	2	2	O-RING, LOW TEMPERATURE	29, 45
7754000160	0	0	2	1	O-RING, LOW TEMPERATURE	19
7755008002	0	0	2	20	O-RING	256, 258, 260, 262
7755008609	0	0	2	5	RING, BACK-UP	262
7755009002	0	0	2	12	O-RING	257
7755011002	0	0	2	9	O-RING	12, 13, 161, 289, 290

From - 7555306000

To - 7755011002

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7755012000	0	0	2	4	O-RING	103, 111, 235
7755014000	0	0	2	7	O-RING	261, 262
7755014002	0	0	2	12	O-RING	161, 257, 289, 290
7755014609	0	0	2	2	RING, BACK-UP	261
7755015000	0	0	2	2	O-RING	261, 262
7755015002	0	0	2	20	O-RING	256, 258
7755017002	0	0	2	4	O-RING	257
7755018002	0	0	2	5	O-RING	289, 290
7755021002	0	0	2	2	O-RING	142
7755026002	0	0	2	4	O-RING	258
7755040000	0	0	2	6	SEAL	103, 111
7755045000	0	0	2	2	O-RING	93, 97
7755112000	0	0	2	4	O-RING	94, 97
7755115002	0	0	2	2	O-RING	260
7755120000	0	0	2	4	O-RING	260
7755121002	0	0	2	4	O-RING	257
7755152000	0	0	2	2	O-RING	93, 97
7755155002	0	0	2	1	O-RING	161
7755325609	0	0	2	4	RING, BACK-UP	29, 45
7755332609	0	0	2	2	RING, BACK-UP	19
7755334609	0	0	2	3	RING, BACK-UP	29, 45, 185
7755342609	0	0	2	3	RING, BACK-UP	19, 49
7755425609	0	0	2	1	RING, BACK-UP	49
7755904000	0	0	2	1	O-RING	299
7755904002	0	0	2	11	O-RING	13, 29, 121, 161, 249, 283, 284, 289, 293
7755905002	0	0	2	1	O-RING	259
7755906002	0	0	2	14	O-RING	12, 13, 29, 121, 133, 249, 283, 287, 289, 290
7755908002	0	0	2	20	O-RING	49, 121, 249, 257, 275, 290, 293, 295, 297
7755910002	0	0	2	15	O-RING	142, 161, 260, 261, 262, 289, 290, 293, 295, 297, 299
7755912002	0	0	2	4	O-RING	121, 289, 290
7755916002	0	0	2	8	O-RING	142, 161, 283, 289, 290
7794000015	0	0	2	1	RING, WIPER	19
7794000519	0	0	2	2	SEAL	187, 189
7794000545	0	0	2	1	SEAL, BUFFER	19
7794000586	0	0	2	2	SEAL, BUFFER	29, 45
7794000603	0	0	2	2	SEAL, DEEP Z ROD	29, 45
7794000627	0	0	2	1	SEAL, DEEP Z ROD	19
7794000684	0	0	2	4	SEAL	29, 45
7794000708	0	0	2	3	RING, SEAL	231, 233

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7794001558	0	0	2	3	RING, SEAL	73, 211
7826000087	1	1	3	161	SOCKET, 16-14 GA	31, 33, 69, 85, 155, 223, 225
7826000092	1	1	3	4	SOCKET	69
7834000059	0	0	1	6	SPRING, DOOR RETAINING	129, 131
7834000138	0	0	1	16	SPRING, COMPRESSION	101, 109
7834000183	0	0	1	1	SPRING, COMPRESSION	11
7872000566	0	0	1	1	SWITCH, TOGGLE	61
7872000567	0	0	1	7	SWITCH, TOGGLE	61, 77
7872000568	0	0	1	1	SWITCH, TOGGLE	78
7872000593	0	0	1	1	SWITCH, TOGGLE	78
7872000602	0	0	1	4	SWITCH, PUSH BUTTON	61, 77, 207
7872000664	0	0	1	1	SWITCH, TEMPERATURE	144
7872000684	0	0	1	2	BREAKER, 10 AMP CIRCUIT	61
7872000685	0	0	1	3	BREAKER, 15 AMP CIRCUIT	61
7872000719	0	0	1	1	SWITCH, BATTERY DISCONNECT	217
7872001398	0	0	1	1	FOOTSWITCH	73
7872001497	0	0	1	1	LATCH, 4 ACROSS	78
7872001498	0	0	1	1	BLOCK, CONTACT	78
7872001515	0	0	1	1	SWITCH, EMERGENCY STOP	77
7888000121	0	0	1	1	TEE, RUN	295
7892000195	1	1	3	1	PARALLEL, NON - INSULATED	155
7892000824	1	1	3	1	RECEPTACLE,	139
7892000993	1	1	3	2	SPADE, SPRING	211
7926000154	0	0	0	1	VALVE, HOLDING 3/8 X 1/2 W/PILO	19
7926000996	0	0	0	1	VALVE, CHECK	283
7926001227	0	0	0	1	VALVE, CHECK	143
7926001246	0	0	0	1	VALVE, CHECK	115
7926001339	0	0	0	6	VALVE ASSEMBLY	94, 97
7926001362	0	0	0	3	VALVE ASSEMBLY - DUAL	12
7926001571	0	0	0	1	3/8 CARTRIDGE HOLDING VALVE	49
7926001981	0	0	0	2	VALVE ASSEMBLY - CONTROL	273
7926002028	0	0	0	2	VALVE ASSEMBLY - PRESSURE	273
7926002351	0	0	0	2	HOLDING VALVE	29
9049103792	0	0	1	2	CUP, BEARING	187, 189
9049108681	0	0	1	2	CUP, BEARING	187, 189
9188100199	0	0	2	1	RING, BACK-UP	167
9188100200	0	0	2	1	O-RING	167
9188100201	0	0	2	1	RING, BACK-UP	167
9188100202	0	0	2	1	O-RING	167
9188100207	0	0	2	2	GASKET	167
9188100491	0	0	1	1	BEARING	167
9188100492	0	0	2	1	SEAL	167
9304100081	4	4	6	1	ELEMENT, OIL RETURN	265

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9304100091	4	4	6	1	ELEMENT, AIR CLEANER	147
9352100371	0	0	1	3	SWITCH, MICRO	81, 83
9352100487	0	0	1	1	ROCKER	83
9352100545	0	0	2	1	BOOT, ROCKER SWITCH	83
9437100625	0	0	2	1	O-RING, PRESSURE FILTER	267
9437100642	4	4	6	1	ELEMENT, PRESSURE FILTER	267
9486100132	0	0	2	1	O-RING	117
9486100133	0	0	2	1	GASKET	117
9486100145	0	0	2	1	O-RING	117
9543100001	0	0	0	1	HOSE ASSY	144
9543100002	0	0	0	1	HOSE ASSY	141
9581100140	1	1	1	1	BULB	239
9585100051	1	1	1	1	SET, KEY	63
9632100259	0	0	1	2	RACE, BEARING	103, 111
9632100260	0	0	1	2	BEARING, NEEDLE	103, 111
9632100261	0	0	0	2	SHAFT, SPLINE	103, 111
9632100267	1	1	2	2	REPAIR KIT - ORBIT MOTOR	103, 111
9632101238	0	0	2	2	SEAL, DUST	103, 111
9632101293	1	1	2	0	KIT, SEAL	170
9632101310	0	0	2	1	GASKET	169
9632101313	0	0	2	1	O-RING	169
9632101314	0	0	2	1	GASKET	170
9632101375	0	0	2	2	GASKET, METAL	269
9632101430	0	0	2	1	GASKET	269
9632101459	0	0	2	2	SEAL,	103, 111
9632101460	0	0	2	2	RING, BACK-UP	103, 111
9632101468	1	1	2	2	KIT, SEAL	103, 111
9722101024	0	0	1	4	BEARING ASSEMBLY	149, 169
9722101030	0	0	1	2	BEARING ASSEMBLY	149, 169
9722101037	0	0	1	2	BEARING ASSEMBLY	150, 170
9722102839	0	0	2	2	O-RING	269
9722102847	0	0	2	1	OIL SEAL	269
9734100289	0	0	0	2	SHAFT	99, 107
9734100290	0	0	2	2	SEAL	99, 107
9734100305	0	0	0	6	SHAFT	99, 107
9734100309	0	0	2	4	O-RING, SEAL	99, 107
9734100319	0	0	2	2	SEAL	3, 163
9734100320	0	0	1	2	CUP, BEARING	3, 163
9734100321	0	0	1	2	CONE, BEARING	3, 163
9734100322	0	0	1	2	CUP, BEARING	3, 163
9734100323	0	0	1	2	CONE, BEARING	3, 163
9734100337	0	0	1	6	PIN	3, 163
9734100339	0	0	2	4	O-RING	3, 163
9734100342	0	0	1	2	SPRING	3, 163

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9734100386	0	0	1	2	BEARING, CUP	99, 107
9734100516	0	0	2	2	O-RING	4, 164
9734100517	0	0	2	2	O-RING	4, 164
9734100537	0	0	1	12	WASHER, THRUST	99, 107
9734100538	0	0	1	192	ROLLER, NEEDLE	99, 107
9752100402	1	1	2	2	KIT, REPAIR	101, 109
9752100656	1	1	2	0	KIT, REPAIR	262
9752100974	1	1	2	0	KIT, REPAIR	29, 45
9752100996	1	1	2	4	KIT, REPAIR	255, 260
9752101102	1	1	2	1	KIT, SEAL	260
9752101179	1	1	2	2	KIT, REPAIR	255
9752101180	1	1	2	0	KIT, REPAIR	167
9752101257	1	1	2	4	KIT, SEAL	256, 258
9794100011	0	0	2	1	MOULDING	128
9794100012	0	0	2	1	MOULDING	77
9872100245	1	1	1	1	KEY, SET	61
9926100635	0	0	2	1	O-RING	170
9926102751	0	0	2	4	RING, BACK-UP	256
9926102761	0	0	0	1	VALVE ASSY - SHUTTLE	260
9926102772	0	0	0	2	VALVE, CARTRIDGE	255
9926102773	0	0	0	2	VALVE, CARTRIDGE	255
9926103434	1	1	2	4	KIT, SEAL	27, 279
9926103447	1	1	2	4	KIT, REPAIR	105, 113
9926103487	0	0	0	4	COIL, 12 VOLT	258
9926103648	0	0	2	1	RING, BACK-UP	170
9926104063	0	0	2	8	O-RING	258
9926104088	0	0	0	2	VALVE ASSEMBLY	259
9926104148	1	1	2	2	KIT, REPAIR	277
9926105347	0	0	0	2	CARTRIDGE, COUNTERBALANCE	27
9926106062	0	0	0	2	COIL	259
9926106090	0	0	2	6	O-RING	261
9926106091	0	0	2	6	GASKET	261
9926106169	0	0	0	1	CARTRIDGE	279
9926106257	0	0	0	2	CARTRIDGE	277
9926106294	0	0	0	6	SOLENOID ASSY	261
9926106806	1	1	2	3	KIT, SEAL	255, 260, 262
9926107771	0	0	0	3	COIL	260, 261
9926108443	0	0	2	2	O-RING	275
9926108629	0	0	0	2	VALVE, RELIEF	275
9926108883	0	0	1	1	VALVE, NEEDLE	260
9926112122	1	1	2	2	KIT, SEAL	19, 49
9926112595	1	1	2	1	KIT, SEAL	29

From - 9734100386

To - 9926112595

Manitowoc Crane Group

Notes

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Foot Note Index	Appendix E
Foot Note	Description
- ! # \$ % & () * / @ ^ { } ~ + < = >	THIRD REPAIR KIT AND/OR PART OF 3RD KIT SUB ASSY AND/OR PART OF SUB ASSY SERVICED AS AN ASSEMBLY ONLY FIFTH REPAIR KIT SEE NOTE AT END OF LIST SIXTH REPAIR KIT 4TH SUB ASSY AND/OR PART OF 4TH SUB ASSY 5TH SUB ASSY AND/OR PART OF 5TH SUB ASSY REPAIR KIT AND/OR PART OF KIT 2ND SUB ASSY AND/OR PART OF 2ND SUB ASSY SECOND REPAIR KIT AND/OR PART OF 2ND KIT 3RD SUB ASSY AND/OR PART OF 3RD SUB ASSY 6TH SUB ASSY AND/OR PART OF 6TH SUB ASSY 7TH SUB ASSY AND/OR PART OF 7TH SUB ASSY SEE ALLISON DEALER FOR REPAIR PARTS SEE FURTHER BREAKDOWN THIS GROUP FOURTH REPAIR KIT AND/OR PART OF 4TH KIT REFER TO MCI FOR APPLICABLE NUMBER REFER TO MCI FOR BREAKDOWN LOCATION